DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

A16WE Revision 44 **BOEING** 737-100 Series 737-200 Series 737-200C Series 737-300 Series 737-400 Series 737-500 Series 737-700 Series 737-800 Series 737-600 Series 737-700C Series 737-900 Series 737-900ER Series **Date August 24, 2009**

TYPE CERTIFICATE DATA SHEET A16WE

This data sheet, which is part of Type Certificate No. A16WE, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: THE BOEING COMPANY

PO Box 3707 Seattle, WA 98124

I - Model 737-100 (Approved December 15, 1967) Transport Aircraft

Engines: 2 Pratt and Whitney Turbofan Engines JT8D-7, JT8D-7A, JT8D-7B, JT8D-9A, and JT8D-15;

refer to the FAA Approved Airplane Flight Manual for aircraft engine and engine intermix eligibility.

Fuel: See NOTE 4.

Engine Ratings: Takeoff static thrust Maximum continuous static

standard day, sea level thrust, standard day, conditions (5 min.) lb. sea level conditions lb.

 JT8D-7, -7A, -7B
 14,000
 12,600

 JT8D-9, -9A
 14,500
 12,600

 JT8D-15
 15,500
 13,700

For engine operating limits see engine TC Data Sheet No. E2EA or the FAA Approved Airplane Flight

Manual.

Thrust Setting: The appropriate EPR thrust setting curve (EPR or PT 7), in the FAA Approved Airplane Flight Manual of

AFM Appendices must be used for control of engine thrust.

Airspeed Limits: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Maximum Weights: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Model: <u>Eligible Serial Numbers:</u>

737-112 19768-19772

737-130 19013-19017, 19018 -19033, 19794, 19437

737-159 19679, 19680

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| Rev. No. | 44 | 38 | 20 | 17 | 29 | 29 | 38 | 43 | 43 | 40 | 40 | 40 | 40 | 44 | 44 | 40 | 44 | 44 | 44 | 44 |
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| Rev No. | 44 | 44 | 37 | 38 | 44 | 43 | 44 | 44 | 38 | 44 | 44 | 40 | 43 | 38 | 44 | 43 | 41 | 44 | 41 | 44 |
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737-281 737-282

737-284

737-286

737-287

23041-23046

20498, 20499, 21317

20403-20406, 20523, 20537, 20768, 20964-20966

II. Model 737-200 (Approved December 21, 1967) Transport Aircraft

2 Pratt and Whitney Turbofan Engines JT8D-7, JT8D-7A, JT8D-7B, JT8D-9, JT8D-9A, JT8D-15, JT8D-15, JT8D-15, JT8D-15, JT8D-15, JT8D-15, JT8D-15, JT8D-16, JT8D-17, JT8D-18, JT8D-19, JT8D Engines:

15A, JT8D-17, and JT8D-17A; Refer to the FAA Approved Airplane Flight Manual for aircraft engine

and engine intermix eligibility.

| Engine Ratings: | Takeoff static thrust, | Maximum continuous static |
|-----------------|-------------------------|---------------------------|
| | standard day, sea level | thrust, standard day, |
| | conditions (5 min) lb. | sea level conditions lbs. |

| JT8D-7, -7A, -7B | 14,000 | 12,600 |
|------------------|--------|--------|
| JT8D-9, -9A | 14,500 | 12,600 |
| JT8D-15, -15A | 15,500 | 13,750 |
| JT8D-17, -17A | 16,000 | 15,200 |

The appropriate thrust setting curve (EPR or Pt7), in the FAA Approved Airplane Flight Manual or AFM Thrust Settings:

Appendices must be used for control of engine thrust.

See the appropriate FAA Approved Airplane Flight Manual listed in Note 2. Airspeed Limits:

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

| Model: Eligible Serial Numbers: 737-201 19418-19423, 20211-20216, 21665-21667, 21815-21818, 22018, 22273-22275, 22352-22355, 22443-22445, 22751-22758, 22795-22799, 22806, 22866-22869, 22961, 22962 737-204 19707-19712, 20236, 20417, 20632, 20633, 20806-20808, 21335, 21336, 21693, 21694, 22057-22059, 22364, 22365, 22638-22640, 22966, 22967 737-205 19408, 19409, 20412, 20711, 21184, 21219, 21445, 21729, 21765, 22022, 23464-23469 737-210 21820 737-211 21820 737-212 20492, 20521 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-221 19039-19978, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-228 23073-23105 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-241 21000-21808, 22026-22034, 23159-23172, 23225, 23226 737-242 21186, 22074, 22075 | Maximum Weights: | See the appropriate FAA Approved Airplane Flight Manual listed in Note 2. |
|---|------------------|---|
| 737-201 19418-19423, 20211-20216, 21665-21667, 21815-21818, 22018, 22273-22275, 22352-22355, 22443-22445, 22751-22758, 22799-22806, 22866-22869, 22961, 22962 737-204 19707-19712, 20236, 20417, 20632, 20633, 20806-20808, 21335, 21336, 21693, 21694, 22057-22059, 22364, 22365, 22638-22640, 22966, 22967 737-205 19408, 19409, 20412, 20711, 21184, 21219, 21445, 21729, 21765, 22022, 23464-23469 737-209 23795, 23796, 23913, 24197 737-210 21820 737-212 20492, 20521 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-248 19424, 19425, 20221-20223, 21714, 21715 737-248 19424, 19455, 20221-20223, 21714, 21715 737-260 | Transman Weights | appropriate 11211 approved 1 approved 1 again |
| 22445, 22751-22758, 22795-22799, 22806, 22866-22869, 22961, 22962 737-204 19707-19712, 20236, 20417, 20632, 20633, 20806-20808, 21335, 21336, 21693, 21694, 22057-22059, 22364, 22365, 22638-22640, 22966, 22967 737-205 19408, 19409, 20412, 20711, 21184, 21219, 21445, 21729, 21765, 22022, 23464-23469 737-209 23795, 23796, 23913, 24197 737-210 21820 737-212 20492, 20521 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-260 23914, 23915 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | Model: | Eligible Serial Numbers: |
| 737-204 19707-19712, 20236, 20417, 20632, 20633, 20806-20808, 21335, 21336, 21693, 21694, 22057-22059, 22364, 22365, 22638-22640, 22966, 22967 737-205 19408, 19409, 20412, 20711, 21184, 21219, 21445, 21729, 21765, 22022, 23464-23469 737-209 23795, 23796, 23913, 24197 737-210 21820 737-212 20492, 20521 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-248 19424, 19425, 20221-20223, 21714, 21715 737-288 22856, 22857 737-260 23914, 23915 737-268 | 737-201 | 19418-19423, 20211-20216, 21665-21667, 21815-21818, 22018, 22273-22275, 22352-22355, 22443- |
| 22364, 22365, 22638-22640, 22966, 22967 737-205 | | 22445, 22751-22758, 22795-22799, 22806, 22866-22869, 22961, 22962 |
| 737-205 19408, 19409, 20412, 20711, 21184, 21219, 21445, 21729, 21765, 22022, 23464-23469 737-209 23795, 23796, 23913, 24197 737-210 21820 737-212 20492, 20521 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-204 | |
| 737-209 737-210 737-211 737-212 737-212 737-213 737-214 737-214 737-217 737-217 737-217 737-218 737-218 737-218 737-218 737-219 737-219 737-219 737-219 737-221 737-221 737-222 737-219 737-222 737-223 737-223 737-224 737-224 737-225 737-225 737-226 737-240 737-25 737-260 737-266 737-241 737-256 737-242 737-243 737-243 737-244 737-244 737-245 737-245 737-246 737-246 737-246 737-247 737-248 737-248 737-249 737-240 737-240 737-240 737-240 737-241 737-241 737-242 737-244 737-245 737-246 737-246 737-246 737-247 737-248 737-248 737-248 737-249 737-240 737-240 737-240 737-240 737-241 737-240 737-240 737-241 737-242 737-244 737-245 737-246 737-246 737-247 737-248 737-248 737-248 737-248 737-249 737-248 737-249 737-248 737-249 737-248 737-240 737-248 737-240 737-248 737-240 737-248 737-240 737-248 737-240 737-248 737-240 737-248 737-240 737-258 737-260 737-260 737-260 737-260 737-260 737-268 737-268 737-269 737-269 | | |
| 737-210 737-212 737-214 737-214 737-217 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-212 20492, 20521 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-241 21000-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-214 19681, 19682, 19920, 19921, 20155-20160, 20368 737-217 19884-19888, 20196, 20197, 21716-21718, 22255-22260, 22341, 22342, 22658, 22659, 22728, 22729, 22864, 22865 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-217 | | · · · · · · · · · · · · · · · · · · · |
| 22864, 22865 737-219 | | |
| 737-219 19929-19931, 20344, 21130, 21131, 21645, 22088, 22657, 23470-23475 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-217 | |
| 737-222 19039-19078, 19547-19556, 19758, 19932-19956 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | , |
| 737-228 23000-23011, 23349, 23503, 23504, 23792, 23793 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-229 20907-20912, 21135-21137, 21176, 21177, 21596, 21839, 21840 737-230 22113-22143, 22402, 22634-22637, 23153-23158 737-232 23073-23105 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-230 | | |
| 737-232 23073-23105 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-236 21790-21808, 22026-22034, 23159-23172, 23225, 23226 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-230 | 22113-22143, 22402, 22634-22637, 23153-23158 |
| 737-241 21000-21009 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-232 | 23073-23105 |
| 737-242 21186, 22074, 22075 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-244 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | |
| 737-247 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | | 21186, 22074, 22075 |
| 737-248 19424, 19425, 20221-20223, 21714, 21715 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-244 | 19707, 19708, 20229, 20329-20331, 22580-22591, 22828 |
| 737-258 22856, 22857 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-247 | 19598-19617, 20125-20134, 23184-23189, 23516-23521, 23602-23609 |
| 737-260 23914, 23915 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-248 | 19424, 19425, 20221-20223, 21714, 21715 |
| 737-266 21191-21196, 21227 737-268 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 737-269 21206 | 737-258 | 22856, 22857 |
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| 737-269 21206 | 737-266 | 21191-21196, 21227 |
| | 737-268 | 20576-20578, 20882, 20883, 21275-21277, 21280-21283, 21360-21362, 21653, 21654, 22050 |
| 737-275 19742, 20142, 20588, 20670, 20785, 20922, 20958, 20959, 21115, 21639, 21712, 21713, 21819, 22086. | 737-269 | 21206 |
| , | 737-275 | 19742, 20142, 20588, 20670, 20785, 20922, 20958, 20959, 21115, 21639, 21712, 21713, 21819, 22086, |
| 22087, 22159, 22264-22266, 22807, 22873, 22874, 23283-23285 | | 22087, 22159, 22264-22266, 22807, 22873, 22874, 23283-23285 |
| 737-277 22645-22656 | 737-277 | 22645-22656 |
| 737-281 20226, 20227, 20276, 20277, 20413, 20414, 20449-20452, 20506-20508, 20561-20563, 21766-21771 | 737-281 | 20226, 20227, 20276, 20277, 20413, 20414, 20449-20452, 20506-20508, 20561-20563, 21766-21771 |

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737-291
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737-25A
                                      23789-23791
737-25C
                                      24236
737-27A
                                      23794
737-2A1
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737-2A6
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737-2A8
                                      20480-20486, 20960-20963, 21163, 21164, 21496-21498, 22280-22286, 22860-22863, 23036, 23037
737-2A9
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737-2B6
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737-2B7
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737-2C0
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737-2C3
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737-2C9
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737-2D6
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737-2E3
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737-2E7
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737-2F9
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                                      20336, 20345, 20369, 20925, 21117, 21262, 21337-21340, 21447, 21448, 21533-21535, 21593, 21721,
                                      21722, 21811, 21812, 21970, 22060-22062, 22356-22358, 22673-22675, 22730-22732, 22826, 22827,
                                      22903-22905, 22963-22965, 23053-23055, 23108-23110, 23249
737-2H5
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737-2H6
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737-2J8
                                      22859
737-2K2
                                      21397, 22025, 22296, 22906
737-2K3
                                      23912, 24139
737-2K5
                                      22596-22601
737-2K6
                                      20957, 22340
737-2K9
                                      22415, 22416, 22504, 22505, 23386, 23404, 23405
737-2L7
737-2L9
                                      21278, 21279, 21528, 21685, 21686, 22070-22072, 22406-22408, 22733-22735
737-2M2
                                      21172, 21723, 22626, 22775, 22776, 23220, 23351
737-2M6
                                      20913, 21138
737-2M8
                                      21231, 21736, 21955, 22090
737-2M9
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737-2N1
                                      21167
737-2N3
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737-2N7
                                      21226
737-2N8
                                      21296
737-2N0
                                      23677-23679
737-2P5
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737-2P6
                                      21355-21359, 21612, 21613, 21677, 21733, 21734
737-2Q3
                                      21476-21478, 22367, 22736, 23117, 23481, 24103
737-2Q8
                                      21518, 21687, 21735, 21960, 22453, 22760, 23148
737-2Q9
                                      21719, 21720, 21975, 21976
737-2S3
                                      21774-21776, 22278, 22279, 22633, 22660
737-2S9
                                      21957
737-2T2
                                      22793
                                      22054, 22055, 22368-22371, 22529, 22697-22701, 22800-22804, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23272-23274, 23443-23447, 23443-23447, 23272-23274, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23443-23447, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23445, 23455, 23455, 23455, 23455, 23455, 23455, 23455, 23455, 23455, 234
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737-2T5
                                      22023, 22024, 22395-22397, 22632, 22979
737-2T7
                                      22761, 22762
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| 737-2U4 | 22161, 22576 |
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| 737-2U9 | 22575 |
| 737-2V2 | 22607 |
| 737-2V5 | 22531 |
| 737-2V6 | 22431 |
| 737-2W8 | 22628 |
| 737-2X2 | 22679 |
| 737-2X9 | 22777-22779 |
| 737-2Y5 | 23038-23040, 23847, 23848, 24031 |
| 737-2Z6 | 23059 |
| 737-T43A | 20685-20703 |

III. Model 737-200C (Approved October 29, 1968) Transport Aircraft

Engines: 2 Pratt and Whitney Turbofan Engines JT8D-7, JT8D-7A, JT8D-7B, JT8D-9, JT8D-9A, JT8D-15, JT8D-

15A, JT8D-17, and JT8D-17A; Refer to the FAA Approved Airplane Flight Manual for aircraft engine

and engine intermix eligibility.

Fuel: See NOTE 4.

Engine Ratings: Takeoff static thrust, Maximum continuous standard day, sea level static thrust, standard conditions (5 min) lb. Maximum continuous static thrust, standard day, sea level conditions lb.

| JT8D-7, -7A, -7B | 14,000 | 12,600 |
|------------------|--------|--------|
| JT8D9D-9, -9A | 14,500 | 12,600 |
| JT8D-15, -15A | 15,500 | 13,750 |
| JT8D-1717A | 16,000 | 15.200 |

For engine operating limits see engine TC Data Sheet No. E2EA or the FAA Approved Airplane Flight

Manual.

Thrust Settings: The appropriate thrust setting curve (EPR or Pt7), in the FAA Approved Airplane Flight Manual or AFM

Appendices must be used for control of engine thrust.

Airspeed Limits: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Maximum Weights: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Model: **Eligible Serial Numbers:** 737-202C 19426 737-204C 20282, 20389 737-205C 20458 19594, 20138, 20440, 20917, 21066, 21067, 21821, 21822 737-210C 737-219C 22994 737-229C 20914-20916, 21139, 21738 737-230C 20253-20258 737-242C 19847, 19848, 20455, 20496, 21728, 22877 737-248C 20218-20220, 21011 737-268C 20574, 20575 737-270C 20892, 20893, 21183 737-275C 19743, 21116, 21294, 22160, 22618 737-282C 23051 737-286C 20500, 20740 737-287C 20407, 20408 737-290C 22577, 22578, 23136

III. 737-200C (cont'd)

| 737-2A1C 21187, 21188 737-2A8C 22473 737-2A9C 20205, 20206 737-2B1C 20536 737-2B6C 23049, 23050 737-2D6C 20650, 20758, 21287 737-2H3C 21974 737-2H4C 20346 737-2H4C 20590, 20591, 23386 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S5C 2148 737-2T2C 22056 737-2T4C 23065, 23066 737-2T4C 23065, 23066 737-2X6C 23121-23124, 23292 | 737-298C | 20793-20795 |
|--|----------|---------------------|
| 737-2A8C 22473 737-2A9C 20205, 20206 737-2B1C 20536 737-2B6C 23049, 23050 737-2D6C 20650, 20758, 21287 737-2H3C 21974 737-2H4C 20346 737-2H6C 21109 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S5C 2148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2A1C | 21187, 21188 |
| 737-2B1C 20536 737-2B6C 23049, 23050 737-2D6C 20650, 20758, 21287 737-2H3C 21974 737-2H4C 20346 737-2H7C 20590, 20591, 23386 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2M2C 21173 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S5C 2148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2A8C | |
| 737-2B6C 23049, 23050 737-2D6C 20650, 20758, 21287 737-2H3C 21974 737-2H4C 20346 737-2H6C 21109 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2A9C | 20205, 20206 |
| 737-2D6C 20650, 20758, 21287 737-2H3C 21974 737-2H4C 20346 737-2H6C 21109 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2B1C | 20536 |
| 737-2H3C 21974 737-2H4C 20346 737-2H6C 21109 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2B6C | 23049, 23050 |
| 737-2H4C 20346 737-2H6C 21109 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M9C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2D6C | 20650, 20758, 21287 |
| 737-2H6C 21109 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2H3C | 21974 |
| 737-2H7C 20590, 20591, 23386 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M9C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q8C 21538 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2H4C | 20346 |
| 737-2J8C 21169, 21170 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2H6C | 21109 |
| 737-2K2C 20836, 20943, 20944 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2H7C | 20590, 20591, 23386 |
| 737-2L7C 21073 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2J8C | 21169, 21170 |
| 737-2M2C 21173 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2K2C | 20836, 20943, 20944 |
| 737-2M6C 21809 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2L7C | 21073 |
| 737-2N9C 21499 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2M2C | 21173 |
| 737-2Q2C 21467 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2M6C | 21809 |
| 737-2Q5C 21538 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2N9C | 21499 |
| 737-2Q8C 21959 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2Q2C | 21467 |
| 737-2R4C 21763, 23129, 23130 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2Q5C | 21538 |
| 737-2R6C 22627 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2Q8C | 21959 |
| 737-2R8C 21710, 21711 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2R4C | 21763, 23129, 23130 |
| 737-2S2C 21926-21929 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2R6C | 22627 |
| 737-2S5C 22148 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2R8C | 21710, 21711 |
| 737-2T2C 22056 737-2T4C 23065, 23066 | 737-2S2C | 21926-21929 |
| 737-2T4C 23065, 23066 | 737-2S5C | 22148 |
| | 737-2T2C | 22056 |
| 737-2X6C 23121-23124, 23292 | 737-2T4C | 23065, 23066 |
| | 737-2X6C | 23121-23124, 23292 |

IV. Model 737-300 (Approved November 14, 1984) Transport Aircraft

Engines: 2 CFM-56-3-B1, CFM-56-3B-2 or CFM-56-3C-1 Turbofan Engines. Refer to the FAA Approved

Airplane Flight Manual for engine limitations.

Fuel: Fuel conforming to commercial jet fuel Specification ASTM-D-1655 or G.E. Specification D50PF2 Jet A,

Jet A1, and Jet B are authorized for unlimited use. Fuels conforming to MIL-T-5624 grades JP-4, P-5,

and JP-8 are acceptable alternatives. Consult flight manual for additive use.

| Engine Ratings: | | Takeoff static thrust, | Maximum continuous static |
|-----------------|-------------|--|--|
| | | standard day, sea level conditions (5 min) lb. | thrust, standard day, sea level conditions lb. |
| | CFM 56-3C-1 | 22,100* | 20,500* |

| CFM 56-3C-1 | 22,100 | 20,500 |
|-------------|--------|--------|
| CFM 56-3-B1 | 20,100 | 18,900 |
| CFM 56-3B-2 | 22,100 | 20,500 |

*CFM 56-3C-1 Throttle limiter to limit full throttle thrust equivalent to 22,100

For engine operating limits see engine TC Data Sheet No. E2GL or E21EU or the FAA Approved Airplane Flight Manual.

Thrust Settings: The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or

AFM Appendices must be used for control of engine thrust.

Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)

For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

737-300 (Cont'd)

Maximum Weights: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

| | THE R. P. LEWIS CO., LANSING, MICH. |
|------------------------------------|--|
| Model: | Eligible Serial Numbers: |
| 737-301 | 23228-23237, 23257-23261, 23510-23515, 23550-23560, 23739-23743, 23930-23937 |
| 737-306 | 23537-23546, 24261, 24262, 24404, 27420, 27421, 28719, 28720 |
| 737-317 | 23173-23177 |
| 737-319 | 25606-25609 |
| 737-322 | 23642-23644, 23665-23675, 23947-23957, 24147-24149, 24191-24193, 24228-24230, 24240-24253, |
| 737 322 | 24301, 24319-24321, 24360-24362, 24378, 24379, 24452-24455, 24532-24540, 24637-24642, 24653- |
| | 24674, 24717-24718 |
| 727 220 | |
| 737-329 | 23771-23775, 24355, 24356 |
| 737-330 | 23522-23531, 23833-23837, 23871-23875, 24280-24284, 24561-24565, |
| | 25148, 25149, 25215-25217, 25242, 25359, 25414-25416, 26428-26432, 27903-27905 |
| 737-332 | 25994, 25996, 25998 |
| 737-340 | 23294-23299 |
| 737-341 | 24275-24279, 24935, 24936, 25048-25051, 26852-26857 |
| 737-347 | 23181-23183, 23345-23347, 23440-23442, 23596-23599 |
| 737-348 | 23809, 23810 |
| 737-375 | 23707, 23708, 23808 |
| 737-376 | 23477-23479, 23483-23491, 24295-24298 |
| 737-377 | 23653-23664, 24302-24305 |
| 737-382 | 24364-24366, 24449, 24450, 25161, 25162 |
| 737-31B | 25895, 25897, 27151, 27272, 27275, 27287-27290, 27343, 27344, 27519, 27520 |
| 737-31 L | 27273, 27276, 27345, 27346 |
| | |
| 737-31S | 29055-29060, 29099, 29100, 29116, 29264-29267 |
| 737-32Q | 29130 |
| 737-33A | 23625-23636, 23827-23832, 24025-24030, 24092-24098, 24460, 24461, 24789-24791, 25010, |
| | 25011, 25032, 25033, 25056, 25057, 25118, 25119, 25138, 25401, 25402, 25426, 25502-25508, |
| | 25511, 25603, 25743, 25744, 27267, 27284, 27285, 27452-27460, 27462, 27463, |
| | 27469, 27907, 27910 |
| 737-33R | 28868-28871, 28873 |
| 737-33S | 29072 |
| 737-33V | 29331-29342 |
| 737-34N | 28081, 28082 |
| 737-34S | 29108, 29109 |
| 737-35B | 23970-23972, 24237, 24238, 24269, 25069 |
| 737-35 D 737-35 N | 28156-28158, 29315, 29316 |
| 737-35 N 737-36E | 25159, 25256, 25263, 25264, 26315, 26317, 26322, 27626 |
| 737-36E 737-36M | |
| | 28332, 28333 |
| 737-36N | 28554-28564, 28566-28573, 28586, 28590, 28594, 28596, 28599, 28602, 28606, 28668-28673, 28872 |
| 737-36Q | 28657-28660, 28662, 28664, 28760, 28761, 29140, 29141, 29189, 29326, 29327, 29405, 30333-30335 |
| 737-36R | 29087, 30102 |
| 737-37K | 27283, 27335, 27375, 29407, 29408 |
| 737-37Q | 28537, 28548 |
| 737-38B | 25124 |
| 737-38J | 27179-27183, 27395 |
| 737-39A | 23800 |
| 737-39K | 27274, 27362 |
| 737-39M | 28898 |
| 737-39P | 29410, 29411, 20412 |
| 737-3 A 1 | 28389 |
| 737-3A1 737-3A4 | 23251-23253, 23288-23291, 23505, 23752 |
| | |
| 737-3B3 | 24387, 24388, 26850, 26851 |
| 737-3B7 | 22950-22959, 23310-23319, 23376-23385, 23594, 23595, 23699-23706, 23856-23862, 24410-24412, |
| 505.005 | 24478, 24479, 24515, 24516 |
| 737-3G7 | 23218, 23219, 23776-23785, 24008-24012, 24633, 24634, 24710-24712, 25400 |
| 737-3H4 | 22940-22949, 23333-23344, 23414, 23689-23697, 23938-23940, 23959, 23960, 24572, 24888, 24889, |
| | 25219, 25250, 25251, 26571-26602, 27378-27380, 27689-27722, 27926-27936, |
| | 27953-27956, 28033-28037, 28329-28331, 28398-28401 |
| | |

| 151-500 (Cont u) | |
|------------------|---|
| 737-3H6 | 27125, 27347 |
| 737-3H9 | 23329, 23330, 23415, 23416, 23714-23716, 24140, 24141 |
| 737-3J6 | 23302, 23303, 25078-25081, 25891, 25892, 25893, 27045, 27128, 27361, 27372, 27518, 27523 |
| 737-3K2 | 23411, 23412, 23738, 23786, 24326-24329, 26318, 27635, 28085 |
| 737-3K9 | 23797, 23798, 24211-24214, 24864, 24869, 25210, 25239, 25787, 25788 |
| 737-3L9 | 23331, 23332, 23717, 23718, 24219-24221, 24569-24571, 25125, 25150, 25360, |
| | 25440-26442, 27061, 27336, 27337, 27833, 27834, 27924, 27925 |
| 737-3M8 | 24020-24024, 24376, 24377, 24413, 24414, 25015-25017, 25039-25041, 25070, 25071 |
| 737-3Q4 | 24208-24210 |
| 737-3Q8 | 23254-23256, 23387, 23388, 23401, 23402, 23406, 23506, 23507, 23535, 23766, 24068, 24131, |
| | 24132, 24299, 24300, 24403, 24470, 24492, 24698-24702, 24961-24963, 24986-24988, 25373, 26282- |
| | 26286, 26288, 26292-26296, 26301, 26303, 26305, 26307, 26309-26314, 26321, 26325, 26333, 27271, |
| | 27286, 27633, 28054, 28200 |
| 737-3S1 | 24834, 24856 |
| 737-3 S 3 | 23712, 23713, 23733, 23734, 23787, 23788, 23811, 24059, 24060, 29244, 29245 |
| 737-3T0 | 23352-23375, 23455-23460, 23569-23593, 23838-23841, 23941-23943 |
| 737-3T5 | 23060-23064 |
| 737-3U3 | 28731, 28732, 28733, 28734, 28735, 28736, 28737, 28738, 28739, 28740, 28741, 28742 |
| 737-3U8 | 28746, 28747, 29088, 29705 |
| 737-3W0 | 23396, 23397, 25090, 27127, 27139, 27522, 28972, 28973, 29068, 29069 |
| 737-3Y0 | 23495-23500, 23684, 23685, 23747-23750, 23812, 23826, 23921-23927, 24255, 24256, 24462-24465, |
| | 24546, 24547, 24676-24681, 24770, 24902, 24905, 24907-24910, 24913, 24914, 24916, 24918, |
| | 25172-25174, 25179, 25187, 26068, 26070, 26072, 26082-26084 |
| 737-3Y5 | 25613-25615 |
| 737-3Y9 | 25604 |
| 737-3Z0 | 23448-23451, 25089, 25896, 27046, 27047, 27126, 27138, 27176, 27373, 27374, 27521 |
| 737-3Z6 | 24480 |
| 737-3Z8 | 23152 |
| 737-3Z9 | 23601, 24081 |
| | |

V. Model 737-400 (Approved September 2, 1988) Transport Category.

737-300 (Cont'd)

Engines: 2 CFM-56-3C-1 or CFM-56-3B-2 Turbofan Engines. Refer to the FAA Approved Airplane Flight

Manual for engine limitations.

Fuel: Fuel conforming to commercial jet fuel Specification ASTM-D-1655 or G.E. Specification D50PF2 Jet A,

Jet A1, and Jet B are authorized for unlimited use. Fuels conforming to MIL-T-5624 grades JP-4, JP-5,

and JP-8 are acceptable alternatives. Consult flight manual for additive use.

Engine Ratings: Takeoff static thrust Maximum continuous static standard day, sea level thrust, standard day,

conditions (5 min) lb. sea level conditions lbs.

CFM-56-3C-1 23,500 21,860 CFM-56-3B-2 22,100 20,500

For engine operating limits see engine TC Data Sheet No. E2GL or E21EU or the FAA Approved

Airplane Flight Manual.

Thrust Settings: The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or

AFM Appendices must be used for control of engine thrust.

Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)

For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Maximum Weights: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

V. 737-400 (Cont'd)

| Model: | Eligible Serial Numbers: |
|--------------------|---|
| 737-401 | 23876-23886. 23984-23992 |
| 737-405 | 24270, 24271, 24643, 24644, 25303, 25348, 25795 |
| 737-406 | 24514, 24529, 24530, 24857, 24858, 24959, 25355, 25412, 25423, 25424, 27232, 27233 |
| 737-408 | 24352, 24353, 24804, 25063 |
| 737-429 | 25226, 25247, 25248, 25729 |
| 737-430 | 27000-27005, 27007 |
| 737-436 | 24052, 24053, 25267, 25304, 25305, 25349, 25350 25407, 25408, 25428, 25839-25843, 25848-25857, |
| 737-430 | 25859, 25860 |
| 737-446 | 27916, 27917, 28087, 28097, 28831, 28832, 28994, 29864 |
| 737-448 | 24474, 24521, 24773, 24866, 25052, 25736 |
| 737-476 | 24430-24446, 28150- 28152 |
| 737-470 | 27149 |
| 737-490 | 27081, 27082, 28885-28892, 28895, 28896, 29270, 29318, 29858, 30161 |
| | |
| 737-497 737-42C | 25663-25666 |
| | 24231, 24232, 24813, 24814 |
| 737-42J | 27143 |
| 737-43Q | 28489-28494 |
| 737-44P | 29914, 29915 |
| 737-45D | 27156, 27157, 27131, 27256, 27914, 28752, 28753 |
| 737-45R | 29032-29035 |
| 737-45S | 28473, 28474, 28476-28478 |
| 737-46B | 24123, 24124, 24573, 25262 |
| 737-46J | 27171, 27213, 27826, 28038, 28271, 28334, 28867 |
| 737-46M | 28549, 28550 |
| 737-46N | 28723 |
| 737-46Q | 28661, 28663, 28758, 28759, 29000, 29001 |
| 737-48E | 25764-25766, 25771-25776, 26334, 27630, 27632, 28053, 28198 |
| 737-49R | 28881, 28882 |
| 737-4B3 | 24750, 24751 |
| 737-4B6 | 24807, 24808, 26526, 26529-26531, 27678 |
| 737-4B7 | 24548-24560, 24781, 24811, 24812, 24841, 24842, 24862, 24863, 24873, 24874, 24892, 24893, 24933, |
| | 24934, 24979, 24980, 24996, 24997, 25020-25024 |
| 737-4C9 | 25429, 26437 |
| 737-4D7 | 24830, 24831, 25321, 26611-26614, 28701-28704 |
| 737-4H6 | 26443, 26444, 26447, 26449, 26451, 26452, 26457-26468, 26555, 27083-27087, 27096, 27097, 27166- |
| | 27170, 27190, 27191, 27352, 27306, 27353, 27383-27385, 27673, 27674 |
| 737-4K5 | 24125-24130, 24901, 24769, 26316, 27074, 27102, 27830, 27831 |
| 737-4L7 | 26960, 26961 |
| 737-4M0 | 29201-29207 |
| 737-4Q3 | 26603-26606, 27660, 29485, 29487 |
| 737-4Q8 | 24069, 24070, 24234, 24332, 24703-24709, 25095-25114, 25163, 25164, 25168, 25169, 25371-25378, |
| | 25740, 26279-26281, 26285, 26289-26291, 26298-26300, 26302, 26306, 26308, 26320, 26335, 26337, |
| | 27628, 28199, 28202 |
| 737-4S3 | 24163-24167, 24795, 24796, 25116, 25134, 25594-25596 |
| 737-4U3 | 25713-25719 |
| 737-4Y0 | 23865-23870, 23976-23981, 24314, 24344, 24345, 24467-24469, 24493, 24494, 24511-24513, 24519, |
| | 24520, 24545, 24682-24693, 24903, 24904, 24906, 24911, 24912, 24915, 24917, 25177, 25178, 25180, |
| | 25181, 25184, 25190, 25261, 26065, 26066, 26069, 26071, 26073, 26074, 26077, 26078, 26081, 26085, |
| | 26086, 26088 |
| 737-4Z6 | 27906 |
| 737-4Z9 | 25147, 27094 |
| | |

VI. Model 737-500 (Approved February 12, 1990) Transport Aircraft

Engines: 2 CFM-56-3C-1 or CFM-56-3-B1 Turbofan Engines. Refer to the FAA Approved Airplane Flight

Manual for engine limitations.

Fuel: Fuel conforming to commercial jet fuel Specification ASTM-D-1655 or G.E. Specification D50PF2 Jet A,

Jet A1, and Jet B are authorized for unlimited use. Fuels conforming to MIL-T-5624 grades JP-4, JP-5,

and JP-8 are acceptable alternatives. Consult flight manual for additive use.

VI. Model 737-500 (cont'd)

737-58N

737-59D

28866

Engine Ratings: Takeoff static thrust Maximum continuous static standard day, sea level thrust, standard day, sea level conditions lb

conditions (5 min) lb.

20,100* CFM-56-3C-1 18,900* CFM-56-3-B1 20,100 18,900 *CFM 56-3C-1 throttle limiter to limit full throttle thrust equivalent to 20,100.

For engine operating limits see engine TC Data Sheet No. E2GL or E21EU or the FAA Approved

Airplane Flight Manual.

Thrust Settings: The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or

AFM Appendices must be used for control of engine thrust.

VMO/MMO - 340/0.82 (KCAS) Airspeed Limits:

For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Maximum Weights: See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

| 3.6.1.1 | |
|------------------------------------|--|
| Model: | Eligible Serial Numbers: |
| 737-505 | 24272-24274, 24645-24652, 24828, 25789-25792, 25797, 26297, 27153, 27155, 26304, 25794, 26336, |
| 727 522 | 26338, 27627, 27631 |
| 737-522 | 25001-25009, 25254, 25255, 25290, 25291, 25381-25388, 26642, 26643, 26645, 26646, 26648, 26649, |
| | 26651-26653, 26655-26659, 26662, 26663, 26667, 26668, 26671, 26672, 26675, 26676, 26679, 26680, |
| 727 504 | 26683, 26684, 26687, 26688, 26690-26692, 26695, 26696, 26700, 26703, 26704, 26707, 26739, 26699 |
| 737-524 | 27314-27334, 27526-27535, 27540, 27900, 27901, 26319, 26339, 26340, 28899-28928 |
| 737-528 | 25206, 25227-25237, 27304, 27305, 27424-27426 |
| 737-529 | 25218, 25249, 25418, 25419, 26537, 26538 |
| 737-530 | 24815-24824, 24937-24946, 25243, 25244, 25270-25272, 25309-25311, 25357, 25358 |
| 737-548 | 24878, 24919, 24968, 24989, 25115, 25165, 25737-25739, 26287 |
| 737-566 | 25051, 25084, 25307, 25352, 26051, 26052 |
| 737-5B6 | 26527, 25317, 25364, 26525, 27679, 27680 26438, 26439 |
| 737-5C9 737-5H3 | , |
| | 26639, 26640, 27257, 27912 |
| 737-5H4 | 24178-24190, 25153, 25154, 25318-25320, 26564-26570 |
| 737-5H6 | 26445, 26446, 26448, 26450, 26454, 26456, 27354-27356 |
| 737-5K5 | 24776, 24926, 24927, 25037, 25062 |
| 737-5L9 | 24778, 24805, 24859, 24928, 25066, 28083, 28084, 28128-28131, 28721, 28722, 28995-28997, 29234, |
| 727 500 | 29235 |
| 737-5Q8 737-5U3 | 25160, 25166, 25167, 26323, 26324, 27629, 27634, 28052, 28055, 28201 28726, 28727, 28728, 28729, 28730 |
| 737-5Y0 | 24696, 24897-24900, 25175, 25176, 25182, 25183, 25185, 25186, 25188, 25189, 25191, 25192, 25288, |
| 737-310 | 25289, 26067, 26075, 26100, 26101, 26104, 26105 |
| 737-53A | 23289, 20007, 20073, 20097, 20100, 20101, 20104, 20103 24754, 24785-24788, 24877, 24878, 24881, 24921, 24922, 24970,25425 |
| 737-53A 737-53C | 24825-24827 |
| 737-53S | 29073-29075 |
| 737-53 S 737-54 K | 27381, 27430-27435, 27966, 28461, 28462, 28990-28993, 29794, 29795 |
| 737-55D | 27130, 27368, 27416-27419 |
| 737-55S | 26539-26543, 28469-28472, 28475 |
| 737-56N | 28565 |
| 737-58E | 25767-25769, 29122 |
| 131-36E | 23101-23109, 29122 |

24694, 24695, 25038, 25065, 26419, 26421, 26422, 27268

VI. Model 737-500 (cont'd)

DATA PERTINENT TO ALL MODELS EXCEPT 737-700, -800, -600, -700C, -900 & -900ER:

Minimum Crew for All Flights: 2 (Pilot and Copilot)

Maximum Passengers: 113 (737-100 Series Airplanes), 124 if compliance with FAR 25.2(b), (c), & (d) at

Amendment 25.20 is shown.

119 (737-200/200C Series Airplanes), 136 if compliance with FAR 25.2(b), (c), & (d) is shown.

149 (737-300 Series Airplanes).

188 (737-400 Series Airplanes), limited by FAR 25.803(c) 140 (737-500 Series Airplanes), limited by FAR 25.807(d).

Maximum Baggage Cargo: Fuel & Oil Capacities:

See appropriate Weight & Balance Manual, Boeing Document No. D6-15066 See appropriate Weight & Balance Manual, Boeing Document No. D6-15066

Minimum Required Fuel: See appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

Maximum Operating

Altitude: 35,000 ft. 37,000 ft. if authorized by Flight Manual. (737-100 and 737-200 Series Airplanes).

37,000 ft. (737-300, 737-400, and 737-500 Series Airplanes)

Datum: The airplane reference origin of coordinates is a point located 540 inches forward of the center

section wing front spar centerline, at buttock line zero, (i.e., aircraft fore/aft centerline as viewed in

plane view) and at water line zero. (737-100 Series) All production body stations coincide

numerically with moment arms. Horizontal distance of datum to nose gear jack point is 286 inches for the 737-100 Series, 250 inches for the 737-200 Series, and 207.7 inches for the 737-300 Series,

135.7 inches for the 737-400 Series, 261.7 inches for the 737-500 Series.

MAC: 134.5 inches (L.E. of MAC is 625.59 inches aft of the aircraft datum).

Other Operating

Limitations: See FAA Approved Airplane Flight Manual Appendices listed In NOTE 2. See NOTE 12.

Control Surface Movements:

To insure proper operation of the airplane, the movements of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplanes must,

therefore, be rigged according to the following FAA Approved data:Boeing Drawings No.

65-45101 Control Installation, Aileron Spoiler
65-45102 Control Installation, Elevator
65-45103 Control Installation, Rudder
65-45104 Control Installation, Stabilizer Trim
65-45105 Control Installation, Aileron Trim
65-45106 Control Installation, Rudder Trim
65-45116 Control Installation, Speed Brake

Certification Basis: Type Certification Basis, (737-100 & 737-200 Series Airplanes).

FAR 25, Amendments 25-1 through 25-3, 25-7, 25-8, 25-15, FAR 21, FAR 1: and special conditions attached to FAA letter to Boeing dated October 15, 1965, and modified in letters dated December 23, 1966 and February 14, 1967, and Special Condition No. 25-89-NW-5 attached to

FAA letter to Boeing dated April 10, 1979.

Exemption from FAR 25 - No. 575 - Exemption from 25.1001 - allow takeoff weight 115% of maximum landing weight, (non-advanced airplanes only. See Note 8.) Equivalency safety findings exist with respect to the following regulations for Boeing 737-100 and 200

airplanes:

FAR 25.811(f) Exterior Exit Marking

FAR 25.1415(d) Emergency Locator Transmitter

Exemptions from FAR 25:

25.1203(a) allows deletion of fire detector system in the extended nacelle tailpipe section of the engines (Exemption No. 2072).

25.901(c) Partial Exemption – No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Exemption No. 7968, February 4, 2003) See NOTE 16.

DATA PERTINENT TO ALL MODELS EXCEPT 737-700, -800, -600, -700C, -900 & -900ER (cont'd):

Part 36 of the Federal Aviation Regulations.

Special Federal Aviation Regulation 27.

Type Certification Basis, (737-300 Series Airplanes)

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Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-3, 25-7,
25-8, and 25-15, except where superseded by the following sections of Part 25 as amended by
Amendments 25-1 through:
25-11 (Section 25.939, 25.977, 25.1141);
25-16 (Section 25.1457);
25-17 (Section 25.813);
25-20 (Section 25.785);
25-23 (Section 25.701, 25.723, 25.729, 25.863, 25.1103, 25.1143, 25.1331, 25.1333, 25.1435);
25-31 (Section 25.1459);
25-32 (Section 25.787, 25.809, 25.811, 25.853, 25.1557);
25-36 (Section 25.1305(a), (c), (d)(1), and (d)(2));
25-40 (Section 25.1585);
25-51 (Section 25.2, 25.101, 25.107, 25.111, 25.113, 25.143,
25.343, *25.571(a) and (b), 25.571(d), 25.581, 25.629, *25.671, *25.672, 25.677, 25.683,
         *25.699, 25.703, 25.735, 25.771, 25.772, 25.773, 25.789, 25.791, 25.803, 25.812, 25.855,
25.865,
25.903, 25.933, 25.934, 25.979, 25.993, 25.994, 25.1001, 25.1019, 25.1041, 25.1043,
25.1093,
25.1183, 25.1203, 25.1303, **25.1305(d)(3), 25.1307, *25.1309, 25.1325(a) through (f), 25.1326,
25.1351(d), 25.1359, 25.1387, 25.1413, 25.1415, 25.1419, 25.1447, 25.1450, 25.1561, 25.1581,
25.1583, 25.1587; 25-53 (Section 25.1411).
Federal Aviation Regulations (FAR) Part 36 with Amendments 36-1 through 36-12, effective
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August 1, 1981. Special Federal Aviation Regulation 27.

Exemption from FAR 25:

25.901(c) Partial Exemption – No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Exemption No. 7968, February 4, 2003) See NOTE 16.

*Applicable only to new or major modified structure or to new systems and components unique to the 737-300 series airplane with respect to the existing Model 737-200 Series airplane. For unmodified areas of Power Operated Control Systems, the original amendment level of FAR 25.695 remains in effect.

**Compliance with 25.1305(d)(3) has been mandated by the FAA in accordance with the provisions of FAR 21.101(b). Equivalency safety findings exist with respect to the following regulations: For 737-300 only:

FAR 25.723(a) Shock Absorption Tests
FAR 25.791 Passenger Information Signs and Placards
FAR 25.803(c)(8) Emergency Evacuation
FAR 25.809(f)(1)(ii) Escape Slides
FAR 25.853(c) Compartment Interiors
FAR 25.811(e)(3) Emergency Handle Illumination
FAR.812(b)(1)(i) Emergency Exit Signs
FAR 25.1093(b)(1) Induction System
Deicing and Anti-Icing provisions.

FAR 25.811(f) Exterior Exit Markings FAR 25.1415(d) Emergency Locator Transmitter (ELT)

DATA PERTINENT TO ALL MODELS EXCEPT 737-700, -800, -600, -700C, -900 & -900ER (cont'd):

Type Certification Basis, (737-400 and 737-500 Series Airplanes)

Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-3, 25-7, 25-8, and 25-15, except where superseded by the following sections of Part 25 as amended by Amendments 25-1 through:

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25-11 (Section 25.939, 25.977, 25.1141);
25-16 (Section 25.1457);
25-17 (Section 25.813);
25-20 (Section 25.785);
25-23 (Section 25.701, 25.723, 25.729, 25.863, 25.1103, 25.1143,
25.1331, 25.1333, 25.1435);
25-31 (Section 25.1459);
25-32 (Section 25.787, 25.809, 25.811, 25.853, 25.1557);
25-33 (Section 25.772);
25-36 (Section 25.1305(a), (c), (d)(1), and (d)(2));
25-40 (Section 25.1585);
25-51 (Section 25.2, 25.101, 25.107, 25.111, 25.113, 25.143, 25.145, 25.147, 25.149, 25.177,
25.181, 25.201, 25.207, 25.233, 25.237, 25.253, 25.255, *25.305, 25.343, *25.571(a) and (b),
25.571(d), 25.581, 25.629, *25.671, *25.672, 25.677, 25.683, *25.699. 25.703, 25.735, 25.771,
25.773, 25.789, 25.791, 25.803, 25.812, 25.855, 25.865, 25.903, 25.933, 25.934, 25.979, \\
25.993, 25.994, 25.1001, 25.1019, 25.1041, 25.1093, 25.1183, 25.1203, 25.1303,
*25.1305(d)(3),
25.1307, *25.1309, 25.1325(a) through (f), 25.1326, 25.1351(d), 25.1359, 25.1387, 25.1413,
25.1415, 25.1419, 25.1447, 25.1450, 25.1561, 25.1581, 25.1583, 25.1587); 25.53 (Section
25.1411).
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Federal Aviation Regulations (FAR) Part 36 with Amendments 36-1 through 36-15, effective May 6, 1988.

Special Federal Aviation Regulation 27.

*Applicable only to new or major modified structure or to new systems and components unique to the 737-400, and 737-500 series airplane with respect to the existing Model 737-200 Series airplane.

For unmodified areas of Power Operated Control Systems, the original amendment level of FAR 25.695 remains in effect.

**Compliance with 25.1305(d)(3) has been mandated by the FAA in accordance with the provisions of FAR 21.101(b).

Equivalent safety findings exist with respect to the following regulations: For 737-100/-200/-200C/-300/-400/-500:

FAR 25.1415(d) Emergency Locator Transmitter

An equivalent safety finding exists, with respect to incorporation of Boeing Service Bulletin 737-28A1141, for the following regulation: For 737-200/-200C/-300/-400/-500;

FAR 25.901(c) Single Failures

Equivalency safety findings exist with respect to the following regulations: For 737-400 and 737-500 only:

FAR 1.2 Abbreviations and symbols

FAR 25.21 Proof of compliance

FAR 25.103 Stalling Speed

FAR 25.107 Takeoff Speeds

FAR 25.119 Landing Climb: All-engine- operating

FAR 25.121 Climb - One engine-operative

FAR 25.125 Landing

FAR 25.145 Longitudinal Control

FAR 25.147 Directional and lateral control

FAR 25.149 Minimum Control Speed

DATA PERTINENT TO ALL MODELS EXCEPT 737-700, -800, -600, -700C, -900 & -900ER (cont'd):

FAR 25.161 Trim

FAR 25.175 Demonstration of static longitudinal stability

FAR 25.177 Static directional and lateral stability

FAR 25.201 Stall demonstration FAR 25.207 Stall Warning

FAR 25.723(a) Shock Absorption Tests

FAR 25.735 Brakes

FAR 25.773 Pilot compartment view FAR 25.803(c)(8) Emergency evacuation FAR 25.809(f)(1)(ii) Escape slides

FAR 25.811(e)(3) Emergency handle illumination

FAR 25.811(f) Exterior Exit Markings FAR 25.812(b)(1)(i) Emergency exit signs FAR 25.1323 Airspeed indicating system FAR 25.1325 Static pressure systems

FAR 25.1415(d) Emergency Locator Transmitter (ELT)

FAR 36 Appendix C Use of the 1g Stall Speed instead of minimum speed in the stall as a basis for determining compliance.

Compliance with the following optional requirements has been established for all Models:

Ditching Provisions 25.801 (Overwater operation can be approved when the

aircraft has been equipped and has been approved according to FAR 25.801. The 56-person life

raft is not approved for use on 737-

100/200/300/400 airplanes due to ditching

evacuation capability).

Ice Protection Provisions 25.1419

Production Basis: Production Certificate No. 700

Required Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see

Certification Basis) must be installed in the aircraft for certification. The required equipment is

noted in the Type Design Data.

Service Information: Boeing Document D6-15565 (For 737-100/200), D6-37635 (For 737-300), D6-38246 (For 737-

400), D6-38441 (For 737-500), "Structural Repair Manual" is FAA-approved. Service Bulletins and other service information, when FAA-approved, will carry a statement to that effect.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

NOTES FOR SECTIONS I THRU VI:

NOTE 1. Current Weight and Balance Control and Loading Manual, including list of equipment, (D6-

15066 Airplane Report), included in certificated weight empty and loading instructions must be in each aircraft at the time of original certification and at all times thereafter except in the case of

operators having an approved weight control system.

NOTE 2. Airplane operation must be in accordance with the FAA Approved AFM. All placards required

in either the FAA Approved AFM, the applicable operating rules or the Certification Basis must

be installed in the airplane.

Boeing Document No. D6-8737 is the basic FAA Approved Airplane Flight Manual for Models

737-100/200 airplanes.

Boeing Document No. D6-8730 is the basic FAA Approved Airplane Flight Manual for Model

737-300 airplanes.

Boeing Document No. D6-8734 is the basic FAA Approved Airplane Flight Manual for Model

737-400 airplanes.

NOTES FOR SECTIONS I THRU VI: (cont'd)

Boeing Document No. D6-8735 is the basic FAA approved Airplane Flight Manual for Model 737-500 airplanes.

NOTE 3.

The retirement times of fatigue critical parts are listed in the following table. FAA engineering approval is required to increase these values of retirement time. These service lives may be converted to flight hours based on service route segments average time and must be approved by the FAA.

LIFE LIMITS FOR MODEL 737 MAIN/NOSE LANDING GEARS (3)

| SERIES | WEIGHT RA | ANGE (KIPS) | LIFE LIMI | T (FLIGHTS) |
|-----------|-------------|-------------|-------------|-------------|
| -100 | TAXI | LANDING | MAIN | NOSE |
| -200 | 95 - 111.2 | 89.7 - 103 | 81,000 (1) | 81,000 |
| BGW | | | | |
| -200 HGWA | | | | |
| -200HGWA | 114 - 128.6 | 103-107 | 100,000 (1) | 90,000 |
| -200HGWB | | | (2) | |
| -300 | 136.5 - 139 | 114 | , | 75,000 |
| -400 | 143 | 121 | | 75,000 |
| -500 | 134-139 | 110 | | 75,000 |

- (1) Trunnion pins 65-46113-3 and -5 are to be replaced at 76,000 flights.
- (2) Forward trunnion fuse bolts 65-42196-4, -5 and 69-58854-2, used on 737-100 and 737-200 series airplanes are to be replaced at 83,000 flights.
- (3) For Detail Components Lives see Boeing Service Letter 737-SL-32-21.
- NOTE 4. (a) JP-1, JP-4 and JP-5 fuels conforming to P & WA specification No. 522 and later revisions may be used separately or mixed in any proportions without adversely affecting the engine operation or power output. No fuel control adjustment is required when switching fuel types.
 - (b) Phillips anti-icing fuel additive PFA-55MB may be used if concentration delivered to airplane does not exceed 0.15% by volume. No fuel system anti-icing credit is allowed.
- NOTE 5. Models designation of the 737-100, 737-200, 737-200C, 737-300, 737-400, and 737-500 Series airplanes are shown by the "Dash No." of the prefix "737," i.e. 737-105; the "1" represents the "-100 Series," and the "05" represents the customer's configuration for which initial approval was obtained.
- NOTE 6. Weight and Balance Control and Loading Manual. For each Model the Weight and Balance Control and Loading Manual (Boeing Document D6-15066) consists of the Basic Manual and a Supplement Aircraft Report.
- NOTE 7. The Boeing Supplemental Structural Inspection Document (SSID), D6-37089 and D6-37089-1, are applicable to the 737-100, 737-200 and 737-200C (Sec ADs 98- 11-04, Amendment 39-10531, 98-11-04 R1, Amendment 39-10984, 2008-08-23, Amendment 39-15477 and 2008-11-03, Amendment 39-15525). The Boeing 737 SSID, D6-82669, is applicable to the 737-300, 737-400 and 737-500 (See AD 2008-09-13, Amendment 39-15494).
- NOTE 8. All Model 737-200 series airplanes having serial numbers 20492 and on, are of the -200 advanced series airplane. All earlier airplanes can be kit modified to the advanced configuration.
- NOTE 9. The "Advanced" configuration (for aircraft with serial numbers before 20492) consists of the following performance modification kits to be operator installed in the following order, if desired:
 - (a) A stopping package, MC 3452, (S.B. 32-1051) plus a high lift package (MC-3400).
 - (b) The above (a) plus JT8D-15 engine (MC-3510).

Notes (Cont'd.)

NOTE 10.

Individual airplanes may be limited to weights different than those specified herein. Refer to the FAA Approved Airplane Flight Manual or the FAA Approved Weight and Balance Manual to determine maximum permissible operating weights and balance limitations.

NOTE 11.

JT8D-15 engines equipped with MOD 10 exhaust mixer (Pratt & Whitney Aircraft Part No. 5004027) have same engine limits as JT8D-15 engines with splitter type exhaust system.

NOTE 12.

Reference Boeing Document D6-37349 for approved autoland equipment limitations for Model 737-200 series airplanes.

NOTE 13.

There are service bulletins which call for modifications which do not comply with the Type Certification Basis. These service bulletins are listed in Boeing Document D6-19567 titled "Service Bulletin 737". The records of airplanes imported into the USA should be reviewed to be sure that further modifications are accomplished to insure compliance, if the non FAA-approved service bulletins modifications have been installed.

NOTE 14.

Airplanes line numbers 1591, 1593, 1595, and on, were manufactured on or after August 20, 1988, and airplane line numbers 1718, 1903, 1907, and on, were manufactured on or after August 20, 1990. Reference FAR 121.312(a)(1) and (2) Amendment 121-198. Airplanes 1718, 1907 through 1927 are exempt (Exemption No. 5176A). See Service Bulletin Index Part 3 for cross reference of line number to airplane serial number.

NOTE 15.

The type design reliability and performance of the Model 737-200, -300, -400, and -500 airplanes have been evaluated in accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D6-38091 "CONFIGURATION, MAINTENANCE, AND PROCEDURES FOR EXTENDED RANGE (ER) OPERATION" for the Model 737-200, and Boeing Document D6-38123 for the Models 737-300, -400, and -500.

NOTE 16.

The FAA has determined that the occurrence of any uncontrollable high thrust failure condition "may endanger the safe operation of an airplane" and hence is reportable under FAR 121.703, 125.409, and 135.415.

NOTE 17

Mandatory replacement times, inspection intervals, related inspection procedures and all critical design configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 are listed in the FAA-approved Airworthiness Limitations document, Boeing 737-100/200/200C/300/400/500 Airworthiness Limitations and Certification Maintenance Requirements, Document D6-38278-CMR, Revision May 2006 or later FAA-approved revision. The FAA is planning to issue an airworthiness directive mandating compliance with Revision May 2006, or a later FAA-approved revision, applicable to all Model 737-100, -200, -200C, -300, -400, and -500 series airplanes.

VII. Model 737-700 (Approved November 7, 1997), 737-800 (Approved March 13, 1998), and 737-600 (Approved August 12, 1998) Transport Aircraft.

Engines:

Two CFM56-7B, -7B/2 or -7B/3 Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual for engine limitations. The CFM56-7B/2 series have double annular combustors and provide the same thrust as the CFM56-7B series engines at the respective engine ratings and are approved for all models. The CFM56-7B/3 series have single annular combustors and provide the same thrust as the CFM56-7B series engines at the respective engine ratings.

Fuel:

Fuels meeting the following specifications and mixtures thereof are approved for use:

- * Jet A, Jet A-1 as specified in ASTM-D1655
- JP-5 as specified in MIL-T-5624
- * JP-8 as specified in MIL-T-83133

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels produced or certified to other specifications <u>and having properties meeting the requirements of the above specifications</u> are acceptable for use. Consult Flight Manual for additive use.

| VII. 737-700, -8 | 00, -600 (Cont'd.) | | |
|------------------|-------------------------|-------------------------|--|
| Engine Ratings: | Model 737-700 | Takeoff static thrust | Maximum continuous static |
| | | standard day, sea level | thrust, standard day, |
| | | conditions (5 min) lb. | sea level conditions lb |
| | CFM56-7B24 | 24,200 | 22,800 |
| | CFM56-7B24/2* | 24,200 | 22,800 |
| | CFM56-7B24/3 | 24,200 | 22,800 |
| | CFM56-7B24/B1** | 24,200 | 22,800 |
| | CFM56-7B24/3B1** | 24,200 | 22,800 |
| | CFM56-7B22 | 22,700 | 22,300 |
| | CFM56-7B22/2* | 22,700 | 22,300 |
| | CFM56-7B22/3 | 22,700 | 22,300 |
| | CFM56-7B20 | 20,600 | 19,400 |
| | CFM56-7B20/2* | 20,600 | 19,400 |
| | CFM56-7B20/3 | 20,600 | 19,400 |
| | CFM56-7B26 | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/3 | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/3F | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/2* | 26,300 | 25,900, Limited to 22,800 by FMC |
| Engine Ratings: | Model 737-700 Increased | d Gross Weight (IGW) | |
| | CFM56-7B24 | 24,200 | 22,800 |
| | CFM56-7B24/2* | 24,200 | 22,800 |
| | CFM56-7B24/3 | 24,200 | 22,800 |
| | CFM56-7B24/3B1** | 24,200 | 22,800 |
| | CFM56-7B22 | 22,700 | 22,300 |
| | CFM56-7B22/2* | 22,700 | 22,300 |
| | CFM56-7B22/3 | 22,700 | 22,300 |
| | CFM56-7B20 | 20,600 | 19,400 |
| | CFM56-70B20/2* | 20,600 | 19,400 |
| | CFM56-7B20/3 | 20,600 | 19,400 |
| | CFM56-7B26 | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/2* | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/3 | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/3F | 26,300 | 25,900, Limited to 22,800 by FMC |
| | CFM56-7B26/B1# | 26,300 | 25,900 |
| | CFM56-7B27A | 27,300 | 25,900 |
| | CFM56-7B27/B3# | 27,300 | 25,900 |
| | CFM56-7B27/3B3# | 27,300 | 25,900 |
| | | | which may be applicable to the 737-700 |
| | IGW airplanes. | | |
| Engine Ratings: | Model 737-800 | Takeoff static thrust | Maximum continuous static |
| 0 | | standard day, sea level | thrust, standard day, |
| | | conditions (5 min) lb. | sea level conditions lb |
| | CFM56-7B24 | 24,200 | 22,800 |
| | CFM56-7B24/2* | 24,200 | 22,800 |
| | CFM56-7B24/3 | 24,200 | 22,800 |
| | CFM56-7B24/B1** | 24,200 | 22,800 |
| | CFM56-7B24/3B1** | 24,200 | 22,800 |
| | CFM56-7B26 | 26,300 | 25,900 |
| | CFM56-7B26/2* | 26,300 | 25,900 |
| | CFM56-7B26/3 | 26,300 | 25,900 |
| | CFM56-7B26/3F* | 26,300 | 25,900 |
| | CFM56-7B27 | 27,300 | 25,900 |
| | CFM56-7B27/2* | 27,300 | 25,900 |
| | CFM56-7B27/3 | 27,300 | 25,900 |
| | CFM56-7B27/3F | 27,300 | 25,900 |
| | CFW130-7B27/3F | 47,300 | 45,900 |

VII. 737-700, -800, -600 (Cont'd.)

| CFM56-7B27/B1** | 27,300 | 25,900 | |
|--|--------|--------|--|
| CFM56-7B27/3B1** | 27,300 | 25,900 | |
| CFM56-7B27/3B1F** | 27,300 | 25,900 | |
| CFM56-7B27/B3**# | 27,300 | 25,900 | |
| CFM56-7B27/3B3**# | 27,300 | 25,900 | |
| *See Note 10 for additional limitations that may apply | | | |

Engine Ratings:

| Model 737-600 | Takeoff static thrust standard day, sea level conditions (5 min) lb. | Maximum continuous static thrust, standard day, sea level conditions lb |
|---------------|--|---|
| CFM56-7B20 | 20,600 | 19,400 |
| CFM56-7B20/2* | 20,600 | 19,400 |
| CFM56-7B20/3 | 20,600 | 19,400 |
| CFM56-7B22 | 22,700 | 22,300 |
| CFM56-7B22/2* | 22,700 | 22,300 |
| CFM56-7B22/3 | 22,700 | 22,300 |

- Double Annular Combustor
- Special Rating
- Special Maintenance Provisions (BBJ applications only).

For engine operating limits see Engine Type Certificate Data Sheet No. E00055EN or E00056EN or the FAA Approved Airplane Flight Manual.

Thrust Settings:

The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

Airspeed Limits:

VMO/MMO - 340/0.82 (KCAS)

For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2

See the appropriate FAA Approved Airplane Flight Manual listed in Note 2 C. G. Range:

737-700 Maximum Weights:

| Maximum Taxi Weight (MTW) | 155,000 lbs. |
|---------------------------------|--------------|
| Maximum Takeoff Weight (MTOW) | 154,500 lbs. |
| Maximum Landing Weight (MLW) | 129,200 lbs. |
| Maximum Zero Fuel Weight (MZFW) | 121,700 lbs. |

737 700 Increased Gross Weight (IGW)

Please see Note 4 at the end of Section for limitations which may be applicable

to the 737-700 IGW airplanes

171,500 lbs. Maximum Taxi Weight (MTW) Maximum Takeoff Weight (MTOW) 171,000 lbs. 134,000 lbs. Maximum Landing Weight (MLW) Maximum Zero Fuel Weight (MZFW) 126,000 lbs.

737-700 Lower Cabin Altitude (LCA)\Increased Gross Weight (IGW)

Please see Note 8 and Note 4 at the end of Section for limitations which may be applicable

to the 737-700 LCA\IGW airplanes

Maximum Taxi Weight (MTW) 171,500 lbs. Maximum Takeoff Weight (MTOW) 171,000 lbs. Maximum Landing Weight (MLW) 134,000 lbs. Maximum Zero Fuel Weight (MZFW) 126,000 lbs.

| VII. 737-700, -800 |), -600 (Cont'd.) | |
|--------------------------|--|---|
| Maximum Weights: | 737-800 | |
| _ | Maximum Taxi Weight (MTW) | 174,900 lbs. |
| | Maximum Takeoff Weight (MTOW) | 174,200 lbs. |
| | Maximum Landing Weight (MLW) | 146,300 lbs. |
| | Maximum Zero Fuel Weight (MZFW) | 138,300 lbs. |
| M: | 727 900 L Cabin Abinala (LCA) | |
| Maximum Weights: | 737-800 Lower Cabin Altitude (LCA) | 2 4 2 11 |
| | Please see Note 8 at the end Section 7 for additional information of the LCA in the section 7 for additional information of the section of the section 2 for additional information of the section of th | mation that is applicable |
| | to the LCA airplanes | 174 000 11 |
| | Maximum Taxi Weight (MTW) | 174,900 lbs. |
| | Maximum Takeoff Weight (MTOW) | 174,200 lbs. |
| | Maximum Landing Weight (MLW) | 146,300 lbs. |
| | Maximum Zero Fuel Weight (MZFW) | 138,300 lbs. |
| Maximum Weights: | 737-600 | |
| | Maximum Taxi Weight (MTW) | 146,000 lbs. |
| | Maximum Takeoff Weight (MTOW) | 145,500 lbs. |
| | Maximum Landing Weight (MLW) | 120,500 lbs. |
| | Maximum Zero Fuel Weight (MZFW) | 114,000 lbs. |
| M 11727 700 | El III G ' IN I | |
| Model 737-700 737-705 | Eligible Serial Numbers: | |
| | 28211, 28217, 28222, 29089-29098 | 20706 20000 20002 20026 20041 20044 |
| 737-724 | 28762-28769, 28779, 28780, 28782-28787, 28789-28791, 28945, 28948-28950 | 28790-28800, 28803, 28930-28941, 28944, |
| 737-732 | 29633, 29645, 29648, 29679, 29683, 29687, 29688 | |
| 737-752 | 28262, 29356, 29363, 30038, 32842, 33783-33793, 34293 | -34300, 35117, 35118, 35122-35124. |
| | 35785-35787 | |
| 737-758 | 29960, 29961 | |
| 737-760 | | 33764-33766 |
| 737-781 | 33872-33878, 33881-33885, 33888-33900, 33916 | |
| 737-783 | 28314-28317, 30191, 30192, 30471, 32276 | |
| 737-790 | 29751-29753, 30162-30166, 30343, 30344, 30542, 30543, | 30626, 30662, 30663, 30778, 30792-30795, |
| | 33011, 33012 | |
| 737-7B6 | 28982, 28984-28986, 28988, 33062 | |
| 737-7C9 | 33802, 33803, 33956 | |
| 737-7H4 | 27835-27897, 29275-29279, 29490, 29491, 29798-29856, | 30544, 30587-30592, 30601-30606, 30677, |
| | 32452-32459, 32460-32545, 33658, 33659, 33715, 33716 | , 33720, 33721, 33829-33832, 33841, |
| | 33852-33861, 33866-33869, 33988-33990, 33998, 33999, | 34010-34012, 34162, 34163, 34217, 34232, |
| | 34259, 34290, 34333, 34450, 34592, 34630-34632, 34713 | , 34714, 34863, 34864, 34951, 34972, 34973, |
| | 35554, 36153, 36640-36442, 36528, 36610-36633, 36636 | , 36637, 36639, 36641, 36643-36648, |
| | 36887-36890, 39843, 36900 | |
| 737-7K2 | 28256, 29347, 30659, 30365-30367, 30371, 30668, 30784 | |
| 737-7K5 | 30714, 30717, 30726, 34693, 35135, 35136, 35140, 35141 | |
| 737-7K9 | 28088-28091, 30041, 30042, 34320, 34321, 34401, 34402 | |
| 737-7L9 | 28004-28015 | |
| 737-7M2 | 34559-34562 | |
| 737-7Q8 | 28209, 28210, 28212, 28216, 28219, 28223, 28224, 28238 | |
| | 29354, 29355, 29359, 30037, 30629, 30630, 30633, 30633 | 5, 30638, 30641, 30642, 30644, 30647-30649, |
| | 30674, 30687, 30707, 30710, 30727 | |
| 737-7U8 | 32371, 32372 | 200000 04505 04504 |
| 737-7V3 | 28607, 29360, 30049, 30458-30464, 30497, 30676, 33705 | 3-33708, 34535, 34536 |
| 737-7W0 | 29912, 29913, 30074, 30075 | |
| 737-7X2 | 28878 | |
| 737-7Z9 | 30418, 30419 | 25264 25269 25272 25279 25284 |
| 737-71B | 29366, 29367, 29370-29372, 32933-32940, 35337, 35360 | -33304, 33308, 33372, 33378, 33384 |
| 737-71M | 33103 | |
| 737-71Q | 29043-29048 | |
| 737-73A | 28497-28500 | |
| 737-73S | 29076-29083 | |
| 737-73V | 30235-30249, 32412-32428 | |
| 737-75B | 28099-28110 | 30656 34024 34029 |
| 737-75C | 28258, 29042, 29084-29086, 30034, 30512, 30513, 30634 | , 30030, 34024-34028 |

| VII. 737-7008 | 800, -600 (Cont'd.) |
|----------------------------|---|
| 737-75N | 33654, 33663, 33666 |
| 737-75R | 30404-30406, 30411, 34805, 34806 |
| 737-76D | 30167, 30168, 33470, 33472 |
| 737-76J | 36114-36118 |
| 737-76N | 28577, 28580, 28582-28585, 28609, 28613, 28630, 28635, 28640, 28641, 28651, 28654, 29885, 29886, |
| 757 7014 | 29893, 29904, 29905, 30050, 30051, 30133-30136, 30830, 32244, 32404, 32440, 32574, 32581-32583, |
| | 32596, 32652-32654, 32656, 32657, 32660-32662, 32664-32668, 32670, 32671, 32673-32681, 32684, |
| | 32695, 32696, 32731, 32734, 32737, 32738, 32741, 32743, 32744, 32881, 32883, 33005, 33378-33380, |
| | 33417, 33418, 33420, 34753-34758, 35218 |
| 737-76Q | 30271, 30273, 30275, 30277, 30279, 30280, 30282, 30283, 30288, 30293 |
| 737-77L | 32722 |
| 737-78J | 28438-28440, 28442 |
| 737-78S | 30169-30171 |
| 737-79K | 29190, 29191 |
| 737-79L | 33408-33413, 34019-34023, 34537-34543 |
| 737-79P | 28253, 28255, 29357, 29358, 29361, 29362, 29364, 29365, 30035, 30036, 30651, 30657, 33008, 33009, |
| | 33037-33046, 36269-36271, 36757-36759 |
| 737-7AD | 28436, 28437 |
| 737-7AX | 30181, 30182, 30183 |
| 737-7BD | 33917-33935, 33938, 33943, 33944, 34479, 34480, 34861, 34862, 35109, 35110, 35788, 35789, 35962, |
| | 36073, 36091, 36399, 36716-36721, 36724, 36725 |
| 737-7BK | 30617, 33015, 33025, 33026 |
| 737-7BX | 30736-30746 |
| 737-7CT | 30712, 30713, 32747-32769, 32771, 32772, 33656, 33657, 33697, 33698, 33969, 33970, 34155-34157, |
| | 35078, 35084, 35086, 35503-35505, 35985, 36420-36422, 36442, 36689, 36691 |
| 737-7EA | 32406, 32407 |
| 737-7EE | 34263 |
| 737-7FE | 34322, 34323 |
| 737-7GL | 34759-34762, 37233, 37234 |
| 737-7HB | 35954, 35956 |
| 737-7HD | 35959 |
| 727 700 1 | Constant (ICW) |
| 737-781 | 1 Gross Weight (IGW) 33879, 33880 |
| 737-781 737-72T | 29024 |
| 737-72 1 737-72U | 29273 |
| 737-720 737-730 | 29102, 30789 |
| 737-73Q 737-73T | 29054 |
| 737-73 U | 29200 |
| 737-74Q | 29135, 29136 |
| 737-74U | 29233 |
| 737-74V | 29272 |
| 737-75T | 29142 |
| 737-75U | 28976 |
| 737-75V | 28579, 28581 |
| 737-79T | 29317 |
| 737-79U | 29411 |
| 737-7AJ | 33499 |
| 737-7AK | 29865, 29866, 30752, 34303 |
| 737-7AN | 29972 |
| 737-7AV | 30070 |
| 737-7AW | 30031 |
| 737-7BC | 30327, 30329, 30330, 30572, 30756, 30782, 30791, 30884, 32575, 32628, 32970, 33036, 33102, 33434 |
| 737-7BF | 30496 |
| 737-7BH | 29791 |
| 737-7BJ | 30076 |
| 737-7BQ | 30547 |
| 737-7CG | 30751 |
| 737-7CJ | 30754 |
| 737-7CP | 30753, 30755 |
| | |

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VII. 737-700, -800, -600 (Cont'd.)
737-7CU
                     30772
737-7DF
                     30790
737-7DM
                     29971, 32916, 33080, 34807, 34808, 34809
737-7DP
                     32805
737-7DT
                     30829
737-7ED
                     32627
737-7EG
                     32807, 35990
737-7EJ
                     32774
737-7EL
                     32775
737-7EM
                     34865
737-7EO
                     29251
737-7ES
                     33542, 33962-33965, 33474, 33476, 33477, 33986, 33987, 34700
737-7ET
                     33010
737-7FB
                     33367
737-7FD
                     33500
737-7FG
                     33405
737-7GC
                     34622
737-7H3
                     29149
737-7H6
                     29274
737-7HF
                     35977
737-7HZ
                     37583
737-7JF
                     37592
737-7N6
                     34260
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737-809
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                     30773-30776, 30799, 30800, 30813-30822, 30835-30837, 32373-32375, 32626
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                     28318-28321, 28323-28328, 28390, 30193-30197, 30467-30470, 32277, 32278, 34546, 34547
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                     35373-35376, 35379, 35380, 35381, 35385, 35683
737-81M
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737-82R
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737-83N
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                     30706, 32348, 32576-32580, 32609-32616, 32663, 32882, 32884
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                     35707, 35747-35749, 35752, 35754, 35756, 35758-35760, 35762, 35764, 36779
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| 737-86D | 33471, 35767-35771, 35773 |
| 737-86J | 28068-28073, 29120, 29121, 29641, 30062, 30063, 30498-30501, 30570, 30827, 30876-30881, 32624, |
| 737-003 | 32625, 32917-32920, 37740-37743 |
| 737-86N | 28574-28576, 28587, 28591, 28592, 28595, 28608, 28610, 28612, 28614-28622, 28624-28626, 28628, |
| 737 0011 | 28636, 28638, 28639, 28642-28645, 28647, 28655, 29883, 29884, 29887-29889, 30230, 30231, 30806, |
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| | 32736, 32739, 32740, 32742, 33003, 33004, 33419, 33677, 34247, 34249, 34251, 34253-34258, |
| | 35209-35217, 35219-35222, 35224, 35226, 35228, 35630-35639, 35641, 35644, 35647-35649, 36540- |
| | 36543, 36809-36813 |
| 737-8F2 | 35743 |
| 737-86Q | 30272, 30274, 30276, 30278, 30281, 30284-30287, 30289-30292, 30294-30296, 32773, 32885 |
| 737-86R | 30494, 30495 |
| 737-87L | 35527-35533, 35535 |
| 737-89L | 29876-29880, 30159, 30160, 30514-30517, 36483-36492, 36741-36744 |
| 737-89P | 30681, 30682, 30691, 32800, 32802, 36272 |
| 737-8AJ | 32825 |
| 737-8AL | 35069-35071, 35073, 35075, 35079, 35081, 35085, 35087, 35088 |
| 737-8AN 737-8AR | 32438 30139 |
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| 131-0AS | 35006-35016, 35502-35505, 35549-35553, 36074-36082, 36567-36576, 37512-37540 |
| 737-8AW | 32806 |
| 737-8BG | 32353-32358 |
| 737-8BK | 29635, 29642-29644, 29646, 29660, 29673, 29675, 29676, 29685, 30620-30625, 33013, 33014, 33016- |
| | 33024, 33027-33030, 33828 |
| 737-8CT | 32770, 34151-34154, 35080, 35288, 35502, 36690, 37158 |
| 737-8CX | 32359-32368 |
| 737-8DC | 34596 |
| 737-8DP | 32451 |
| 737-8DR | 32777 |
| 737-8DV | 32915 |
| 737-8EC | 32450 |
| 737-8EF | 32971 |
| 737-8EQ 737-8EH | 33361 |
| /3/-6ЕП | 34267-34281, 34474, 34475, 34653-34656, 34962-34966, 35063-35066, 35824-35827, 36146-36149, 36566 |
| 737-8EO | 35238 |
| 737-8EV | 33079 |
| 737-8EX | 33473 |
| 737-8FE | 33758, 33759, 33794-33801, 33996, 33997, 34013-34015, 34167, 34168, 34438, 34440, 34441, 34443, |
| | 36601-36605 |
| 737-8FH | 29639, 29640, 29668, 29669, 29671, 29672, 30824, 30826, 35089, 35090, 35092-35098, 35101, 35102, |
| | 35104, 35105 |
| 737-8FV | 34394, 34396 |
| 737-8FZ | 29680, 29682, 34954 |
| 737-8GB | 34395 |
| 737-8GG | 34620 |
| 737-8GJ | 34896-34905, 34955, 34958-34960, 37360 |
| 737-8GK | 34948, 34949 |
| 737-8GQ 737-8HC | 35790-35793 36530-36530 |
| 737-8HG | 36529, 36530 36323-36338 |
| 737-8HX | 29638, 29647, 29649, 29658, 29677, 29681, 29684, 36433, 36434, 36552, 36845-36847 |
| 737-8JP39162 | 27000, 27011, 27017, 27000, 27011, 27001, 27001, 30101, 30101, 30101, 300101, 300101 |
| 737-8KB | 37545 |
| 737-8KN | 35794, 35795, 40233, 40234 |
| 737-8B5 | 29981-29986 |
| 737-8B6 | 28980, 28981, 28983, 28987, 33057-33061, 33063-33068, 33069, 37718 |
| 737-8D6 | 30202-30208, 34164-34166 |
| 737-8F2 | 29765-29790, 34405-34419, 35738-35745 |
| 737-8K2 | 28248, 28373-28380, 29131-29134, 29345, 29595-29598, 29650, 29651, 29678, 30355-30361, 30368, |
| | 30370, 30372, 30389-30392, 30646, 30650, 32943, 34169, 34171, 37160, 37593, 37594 |

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| 737-8K9 | 34399, 34400 | , , | |
| 737-8Q8 | 28056, 28213-28215, | 28218, 28220, 28221, 282 | 25, 28226, 28230, 28232-28235, 28237, 28241, 28242, |
| • | 28251, 28252, 29351, | 29368, 29369, 29373, 293 | 374, 30032, 30039, 30040, 30332, 30627, 30628, 30631, |
| | | | 661, 30665, 30667, 30669-30672, 30680, 30683-30686, |
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| | | | 799, 32801, 32841, 33007, 33699, 35268, 35271, 35273, |
| | | 35283, 35286, 35290, 371 | |
| 737-8S3 | 29246-29250 | 33203, 33200, 33270, 371 | .57, 57102, 57105 |
| 737-8U3 | 30151 | | |
| 737-8V3 | | 34006, 35067, 35068, 35 | 125, 35126 |
| 737-8X2 | 29968, 29969 | , , , | , |
| 737-8Z0 | 30071, 30072, 30073 | | |
| 737-8Z6 | 35478 | | |
| 737-8Z9 | | 30421, 33833, 33834, 342 | 262 |
| 737 02) | 20177, 20170, 30120, | 30121, 33033, 33031, 31 | 202 |
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| 737-683 | 28288-28313, 28322, | 28605, 30189, 30190 | |
| 737-6CT | 34284-34289, 34621, | 34633, 35111-35113, 355 | 70, 35571 |
| 737-6D6 | 30209-30211, 30545, | 30546 | |
| 737-6H3 | 29496-29502 | | |
| 737-6Q8 | 28259-28261, 29348, | 29349, 29353 | |
| 737-6Z9 | 30137, 30138 | | |
| 737-66N | 28649, 28650, 28652, | 29890-29892 | |
| Model 737-700 LCA | \IGW | | |
| 737-7AH | 29749 | | |
| 737-74T | 29139 | | |
| 737-75G | 36852 | | |
| 737-7AU | 34477 | | |
| 737-7BC | 30328 | | |
| 737-7EI | 34683 | | |
| 737-7EI 737-7FY | 36493 | | |
| 737-7 G V | 36090 | | |
| 737-7 H E | 36027 | | |
| 737-7HL | 36106, 36107, 36108 | | |
| 737-7 I B | 36714 | | |
| 737-7 J F | 37592 | | |
| 737-7 J R | 37111 | | |
| | | | |
| Minimum Crew | 2 (D:1-4 1 C:1-4) | | |
| For All Flights: | 2 (Pilot and Copilot) | | |
| Maximum | | | |
| Passengers: | <u>737-700</u> | <u>737-800</u> | <u>737-600</u> |
| | 149 | 189 | 149 |
| Maximum Baggage | | | |
| Cargo: | See appropriate Weig | ht and Balance Manual, B | oeing Document No : |
| Cargo. | D043A560 for Model | | oeing Document 110 |
| | D043A570 for Model | | |
| | D043A580 for Model | | |
| Fuel & Oil | | | |
| Capacities: | See appropriate Wais | ht and Ralanca Manual D | peing Document No. D043 A 570 |
| Capacines: | see appropriate weig | in and darance manual, B | oeing Document No. D043A570 |
| Minimum Required | | | |
| | | | Manual listed in Note 2 |

Fuel: See appropriate FAA Approved Airplane Flight Manual listed in Note 2

VII. 737-700, -800, -600 (Cont'd.)

Maximum Operating

Altitude: 41,000 ft.

Datum: See appropriate Weight & Balance Manual, Boeing Document No. D043A570

MAC: 155.81 in

Other Operating

Limitations: See FAA Approved Airplane Flight Manual Appendices

Control Surface

Movements: To insure proper operation of the airplane, the movements of the various control surfaces must be

carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be

rigged according to the following FAA Approved data:

Boeing Drawing Numbers:

114A1001, Krueger Flap Instl - Inbd Wing L.E.

251A1001, Rigging Instructions, Lateral & Speedbrake Control 251A2001, Rigging Instructions, Elevator Control System 251A3001, Rigging Instructions, Rudder Control System 251A4001, Rigging Instructions, Stabilizer Trim Control 256A3001, Rigging Instructions - Flap Actuation 256A2284, Flap.Slat Sensor Instl - Leading Edge, Wing

Certification Basis:

A. Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-77 with the exceptions listed below:

| SECTION NO. | <u>TITLE</u> | <u>AT AMDT. 25</u> |
|--------------|---|--------------------|
| 25.365 | Pressurized Compartment Loads | 0**** |
| 25.561 | Emergency Landing Conditions-General | 0 |
| 25.562 | Emergency Landing Dynamic Conditions | 64* |
| 25.571 | Damage-tolerance and Fatigue Evaluation | 0, 77, 91** |
| | of Structure | |
| 25.607 | Fasteners | 0, 77** |
| 25.631 | Bird Strike Damage | 0, 77** |
| 25.699 | Lift and Drag Device Indicator | 0, 77** |
| 25.775 | Windshields and Windows | 0 |
| 25.783(f) | Doors | 15, 77** |
| 25.807(c)(3) | Emergency Exits | 15 |
| 25.813 | Emergency Exit Access | 45, 77** |
| 25.832 | Cabin Ozone Concentration | 0*** |
| 25.1141 | Powerplant Controls: General | 11**** |
| 25.1309 | Equipment, Systems and Installations | 0, 77** |
| 25.1419(c) | Ice Protection | 23, 77** |
| | | |

- * Flight attendant seats are qualified to Technical Standard Order C127, dated March 30, 1992, or qualified to TSO C127a, and
 - a) Head Injury Criteria data collected and reported by TSO applicant is less than 1000, and
 - b) Femur Injury Criteria data collected and reported by TSO applicant is less than 2250 pounds, and
 - c) Permanent deformation data collected and reported by TSO applicant are in compliance with the requirements of FAA Advisory Circular (AC) 25.562-1A.

^{*} Passenger and crew seats in the flight deck comply with § 25.562(a),(b),((c)(1),(2),(3),(4),(7), and (8)). In addition flight deck observer seats comply with § 25.562((c)(5)). Medical stretchers used to transport non-ambulatory occupants are not required to comply with § 25.562.

^{**} Applicable to new and significantly modified structure and systems and portions of the airplane affected by these changes. Where two amendment levels are shown for the same paragraph, the number without the asterisk (*) applies to structures, systems and portions of the airplane which are not new or significantly modified. The structure, systems, and components which comply with the later amendment will be identified in Boeing document D010A001, approved by the FAA and JAA, and referenced on the TCDS.

VII. 737-700, -800, -600 (Cont'd.)

*** Boeing provides FAA approved data (Document number D6-49779) to 737 operators to enable the operators to show ozone compliance per §121.578 for their specific route structures.

**** Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only. All other power plant controls were shown to comply with § 25.1141 at amendment 25-77.

***** For 737-800 airplanes configured with a flat aft pressure bulkhead, the airplane is also designed to withstand the effects of a sudden release of pressure venting aft through any 820 square inch opening in that bulkhead at any operating altitude.

Amendment level "0" is the original published version of Part 25 (February 1, 1965).

In addition, the following regulations, which Boeing has voluntarily complied with, are also part of the certification basis;

| SECTION NO. | <u>TITLE</u> | <u>AT AMDT. 25</u> |
|-----------------------|--|----------------------|
| 25.733 | Use of Inert Gas for Tire Inflation | 78 |
| 25.811(e) | Emergency Handle Illumination | 79 |
| 25.1316 | Lightning Protection Requirements | 80 |
| 25.143(c),(d),(e),(f) | General, Controllability & Maneuverability | 84 |
| 25.145(b),(c)(1) | Longitudinal Control | 84 |
| 25.149(f),(h) | Minimum Control Speed | 84 |
| 25.203(c) | Stall Characteristics | 84 |
| 25.253(b) | High-Speed Characteristics | 84 |
| 25.305(d) | Strength and Deformation | 86 |
| 25.321(c),(d) | Flight Loads - General | 86 |
| 25.331(a),(d) | Flight Maneuver and | 86 |
| | Gust Conditions - General | |
| 25.333(a),(c) | Flight Envelope | 86 |
| 25.341 | Gust Loads | 86 |
| 25.343(b) | Design Fuel and Oil Loads | 86 |
| 25.345(a),(c) | High lift Devices | 86 |
| 25.349 | Rolling Conditions | 86 |
| 25.351 | Yawing Conditions | 86 |
| 25.371 | Gyroscopic Loads | 86 |
| 25.373(a) | Speed Control Devices | 86 |
| 25.391 | Control Surface Loads:general | 86 |
| 25.427 | Unsymmetrical Loads | 86 |
| 25.519 | Jacking and Tie-down Provisions | 81 |
| 25.571(b) | Damage Tolerance and Fatigue Evaluation | 86 ** (Note **above) |
| | of Structure | |
| 25.1415(d) | Ditching Equipment (ELT) | 82 |
| 25.1517 | Rough Air Speed V _{RA} | 86 |

In addition to the airworthiness standards, the type-certification basis for these derivative airplanes includes compliance with the emissions standards of part 34 as amended by any amendments effective at the time of certification and with the noise standards of part 36 as amended by Amendment 36-20 or any subsequent amendment effective at the time of certification.

Special Conditions: Special Conditions were proposed, in accordance with § 21.16. The Special Conditions for the following subjects were issued in Renton, Washington, September 17, 1997. Their effectivity was the same day as issuance:

- High Intensity Radiated Fields
- Limit Engine Torque Loads for Sudden Engine Stoppage

Equivalent Safety Findings: The Equivalent Safety Findings were proposed in accordance with § 21.21. The following have been identified as equivalent safety findings:

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|---|
| § 1.1 | General Definitions |
| § 1.2 | Abbreviations and Symbols |
| § 25.21 | Proof of Compliance |
| § 25.101(I) | Performance - General |
| § 25.103 | Stalling Speed |
| § 25.105(c)(1) | Takeoff |
| § 25.107 | Takeoff Speeds |
| § 25.109 | Accelerate Stop Distance; NPRM 93-8: Improved Standards for Determining Rejected Take-off |
| | and Landing Performance |
| § 25.111 | Takeoff Path |
| § 25.115(a) | Takeoff Flightpath |
| | |

| VII. 737-700, -800, -60 | 00 (Cont'd.) | |
|-------------------------|---|---|
| § 25.119 | Landing - Climb: All engines operating | |
| § 25.121 | Climb - One engine operative | |
| § 25.125 | Landing | |
| § 25.143 | General - Controllability and Maneuverability | |
| § 25.145 | Longitudinal Control) | |
| § 25.147 | Directional and Lateral Control | |
| § 25.149 | Minimum Control Speed) | |
| § 25.161 | Trim | |
| § 25.175 | Demonstration of Static Longitudinal Stability | |
| § 25.177 | Static Directional and Lateral Stability | |
| § 25.181 | Dynamic Stability | |
| § 25.201 | Stall Demonstration | |
| § 25.207 | Stall Warning | |
| § 25.231 | Longitudinal Stability and Control | |
| § 25.233 | Directional Stability and Control | |
| § 25.237 | Wind Velocities | |
| § 25.395(a) | Control Systems | |
| § 25.613 | Material Strength Properties and Design Values. | |
| § 25.735 | Brakes | |
| § 25.773 | Pilot Compartment View | |
| § 25.791(a) | Passenger Information Signs and Placards | |
| § 25.810 (a)(1)(ii) | Escape Slides | |
| § 25.811(f)(2) | Exit Band Contrast | |
| § 25.812(b)(1)(i) | Emergency Exit Signs | |
| § 25.813(c)(1)(i) | Emergency Exit Access (for Type III Manual Exit) | |
| § 25.813(c)(1)(i) | Emergency Exit Access (for Type III Automatic Overwing Exit) | |
| | (Documented in Transport Airplane Directorate ELOS memo TD8301SE-T-C-1) | |
| § 25.841(b)(6) | High Altitude Landing Operations | |
| § 25.853(d) | Compartment Interiors | |
| § 25.933(a) | Reversing Systems | |
| § 25.979(b)(1) | Pressure Fueling System | |
| § 25.1001 | Fuel Jettison System | |
| § 25.1323 | Airspeed Indication Systems | |
| § 25.1325 | Static Pressure Systems | |
| § 25.1389(b)(1)(2)(3) | Position Light Minimum Intensities | |
| § 25.1391 | Position Light Minimum Intensities | |
| § 25.1392 | Position Light Minimum Intensities | |
| § 25.1395 | Wing Tip Position Lights | |
| § 25.1415(d) | Emergency Locator Transmitter (ELT) | i |
| § 25.1517 | Rough Air Speed, VRA | |
| § 25.1587 | Performance Information | |
| | | |

Exemptions: Exemptions granted for previously type-certificated 737 series airplanes do not apply to these derivative models.

- § 25.1435(b)(1) Hydraulic Systems (Exemption 6086, Granted May 17, 1995, Exemption No. 6086A, Granted January 29, 2009, applicable to 737-600, 737-700, and 737-800).
- § 25.562(b)(2) Emergency Landing Dynamic Conditions related to Flight Deck Testing (Granted April 12, 1996, Exemption No. 6425).
- § 25.571(e)(1) Damage-Tolerance and Fatigue Evaluation of Structure related to Bird Strike Velocity. (Granted April 8, 1997, Exemption No. 6601).
- § 25.901(c) Partial Exemption No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Exemption No. 7968, February 4, 2003) See NOTE 6.
- § 25.305, 25.307(a), 25.601, 25.603(c), 25-613(a) and (b), and 25.1103(d) Partial Exemption Localized areas of temperature related damage. (Exemption No. 9571, December 11, 2007).
- Partial Time-Limited Exemption from 14 CFR 25.853(a), appendix F, paragraph (a)(1)(i), Testing on Large Interior Panels, granted through November 28, 2010. (Exemption No. 9791, November 28, 2008)
- B. Certification basis for 25.981 at amendment 25-102, and Special Conditions 25.308-SC, issued on December 25, 2005, for the flammability reduction system (FRS), is applied if fuel tank inerting is installed in new airplane production or as a modification. Airworthiness limitations for the FRS are contained in Section 9 of the applicable Maintenance Planning Document.

VII. 737-700, -800, -600 (Cont'd.)

Certification Maintenance

Requirements (CMR's) The CMR's are listed in either the FAA approved Section 9 of Boeing Maintenance Planning Data

Document D626A001-CMR or the applicable engine Type Certification Data Sheet. The more restrictive requirement from these two documents shall be in force. All 737-600/700/700IGW/800 airplanes with line numbers 715 and on must comply with the damage tolerance structural

inspections contained in revision June 2000 or later FAA-approved revision.

Production

Basis: Production Certificate No. 700 has been issued and The Boeing Company is authorized to issue

airworthiness certificates under the delegation option authorization provisions of 14 CFR part 21.

Required

Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification

Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design

Data.

Service

Information: The following Boeing "Structural Repair Manual" Documents are FAA-approved. Service Bulletins and

other service information, when FAA-approved, will carry a statement to that effect.

D634A201 for the 737-700 D634A210 for the 737-800 D634A220 for the 737-600 D634A330 for the 737-700 IGW

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed.

NOTES FOR SECTION VII:

NOTE 1. The following Serial Numbers were produced under Type Certificate Only:

Model 737-700: 27841, 27842, 27843, 27835, 28100, 27836, 28004, 28005, 27837, 28209, 27838, 28100, 28101, 28102, 28088, 27839, 28210, 28103, 28840, 28089, 28006, 28107, 28108, 28099. **Model 737-800**: 27977, 27978, 27979, 27980, 27981, 27982, 28068, 28069, 28213, 28373.

Model 737-600: 28288 thru 28293, 28296, 28297

NOTE 2. Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either

the FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001 is the basic FAA Approved Airplane Flight Manual for Model

737-600/-700/-800 airplanes.

NOTE 3. Required structural inspections for compliance with FAR 25. 571 and the retirement times for safe-life

parts are listed in the FAA Approved Airworthiness Limitations and Certification Maintenance Requirements Section 9 of Boeing 737-600/700/800 Maintenance Planning Document D626A001-CMR. All 737-600/700/GW/800 airplanes with line numbers 715 and on must comply with the Damage Tolerance Structural Inspections contained in revision June 2000 or later FAA-approved revision

NOTE 4. Model 737-700 Increased Gross Weight (IGW):

The following exemptions have been granted when the airplane is not operated for hire, or for common carriage (Granted October 5, 1998, Exemption No. 6820):

§25.785(h)(2) Flight Attendant Seat Locations which do not Provide for Direct View of the Cabin,

§25.813(e) Installation of Interior Doors in between passenger compartments, §25.853(d) Interior materials that do not comply with Heat Release and Smoke

Emissions Requirements.

(Granted February 17, 1999, Exemption No. 6820A); -

§25.807(d)(7) Distance Between Exits.

§25.813(e) Installation of Interior Doors in between passenger compartments §25.853(d) Interior materials that do not comply with Heat Release and Smoke

Emissions Requirements.

Acceptable engine model installed on a 737-700 IGW is dependent on type of intended in-service use. See the individual Airplane Flight Manual for approved installation of either the CFM56-7B26 or CFM56-7B26/B1 or CFM56-7B27/B3.

NOTES FOR SECTION VII: (cont'd)

NOTE 5.

The type design reliability and performance of the Model 737-600, -700, and -800 airplanes have been evaluated in accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D044A007, "737-600/-700/-800 ETOPS CONFIGURATION, MAINTENANCE, AND PROCEDURES". This finding does not constitute approval to conduct ETOPS operations.

NOTE 6.

The FAA has determined that the occurrence of any uncontrollable high thrust failure condition "may endanger the safe operation of an airplane" and hence is reportable under FAR 121.703, 125.409, and 135.415.

NOTE 7:

Mandatory replacement times, inspection intervals, related inspection procedures and all critical design configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-600/700/700C/700IGW/800/900 Maintenance Planning Data Document D626A001-CMR, Revision December 2005 or later FAA-approved revision. All Model 737-700, -800, and -600 series airplanes, production line number 1679 and on, must comply with Revision March 2006, or a later FAA-approved revision. The FAA is planning to issue an airworthiness directive mandating compliance with Revision March 2006, or a later FAA-approved revision, applicable to all Model 737-600, -700, -700C, -800, and -900 series airplanes with production numbers lower than 1679.

NOTE 8:

737-700 and 737-800 airplanes modified by Boeing STC ST01697SE (Lower Cabin Altitude modification) are capable of maintaining a cabin altitude of 6500 feet in lieu of the standard 8000 feet when operating at a cruising altitude of 41,000 feet. This STC modification has been approved for airplanes listed in Figure 1 of Boeing Report D926A200, Revision C, dated June 19, 2007, or later FAA approved revision.

NOTE 9:

Fuel:

The Model 737-600/700/800 has been approved to operate in "Reduced Vertical Separation Minimum" (RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to Advisory Circular (AC) 91-RVSM, titled "Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical Separation Minimum is Applied."

NOTE 10: Model 737-800:

The following exemptions have been granted when the airplane is not operated for hire, or for common carriage (Granted August 17, 2001, Exemption No. 7609):

§25.785(h)(2) Flight Attendant Seat Locations which do not Provide for Direct View of the Cabin,

§25.807(d)(7) Distance Between Exits.

§25.813(e) Installation of Interior Doors in between passenger compartments

§25.853(d) Interior materials that do not comply with Heat Release and Smoke Emissions

Requirements.

Acceptable engine model installed on a 737-800 is dependent on type of intended in-service use. See the individual Airplane Flight Manual for approved installation of either the CFM56-7B26 or CFM56-7B26/B1 or CFM56-7B27/B3

VIII. Model 737-700C (Approved August 31, 2000) Transport Aircraft.

Engines: Two CFM56-7B, or 7B/3 Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual for engine limitations.

Fuels meeting the following specifications and mixtures thereof are approved for use:

- * Jet A, Jet A-1 as specified in ASTM-D1655
- JP-5 as specified in MIL-T-5624
- * JP-8 as specified in MIL-T-83133

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels produced or certified to other specifications and having properties meeting the requirements of the above specifications are acceptable for use. Consult Flight Manual for additive use.

VIII. Model 737-700C (Cont'd)

| <u>VIII. Model 737-700C (Cont'd)</u> | | | | |
|---|--|--|--|--|
| Engine Ratings: | Model 737-700C CFM56-7B24 CFM56-7B24/3 CFM56-7B24/B1** CFM56-7B22/3 CFM56-7B20/3 CFM56-7B26/3 CFM56-7B26/3F ** Special Rating | Takeoff static thrust standard day, sea level conditions (5 min) lb. 24,200 24,200 24,200 24,200 22,700 20,600 26,300 26,300 | Maximum continuous static thrust, standard day, sea level conditions lb 22,800 22,800 22,800 22,800 22,800 22,300 19,400 25,900, Limited to 22,800 by FMC 25,900, Limited to 22,800 by FMC | |
| Thrust Settings: | FAA Approved Airplane I The appropriate engine po | Flight Manual. | Sheet No. E00055EN or E00056EN or the A Approved Airplane Flight Manual or | |
| Airspeed Limits: | VMO/MMO - 340/0.82 (K | CCAS) | | |
| C. G. Range: | | ee the appropriate FAA Approved A Approved Airplane Flight Manual lis | Airplane Flight Manual listed in Note 1 sted in Note 1 | |
| Maximum Weights: | 737-700C Please see Note 4 at the ento the 737-700 IGW airpla Maximum Taxi Weight (Maximum Takeoff Weigh Maximum Landing Weigh Maximum Zero Fuel Weigh | MTW) t (MTOW) t (MLW) | 171,500 lbs. 171,000 lbs. 134,000 lbs. 126,000 lbs. | |
| Model 737-700C | Eligible Serial Numbers: | | | |
| 737-7AF 737-7AX 737-7HBC 737-7HJ | 29979, 29980, 30200, 307 30184, 30185 35955 36756 | 81, 32597, 32598, 33826, 33836, 34 | 1304 | |
| Minimum Crew for All Flights: | 2 (Pilot and Copilot) | | | |
| Maximum Passengers: | Passenger only mode | | Cargo only mode | |
| | 149 | | 0 | |
| Maximum Baggage Cargo: | See appropriate Weight an | d Balance Manual, Boeing Docume | ent No. D043A573 | |
| Fuel & Oil Capacities: | See appropriate Weight an | d Balance Manual, Boeing Docume | ent No. D043A570 | |
| Minimum Required Fuel: | See appropriate FAA App | roved Airplane Flight Manual listed | in Note 1 | |

Maximum Operating

Altitude: 41,000 ft.

Datum: See appropriate Weight & Balance Manual, Boeing Document No. D043A570

MAC: 155.81 in

VIII. Model 737-700C (Cont'd)

Other Operating

Limitations: See FAA Approved Airplane Flight Manual Appendices

Control Surface

Movements: To insure proper operation of the airplane, the movements of the various control surfaces must be

carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be

rigged according to the following FAA Approved data:

Boeing Drawing Numbers:

114A1001, Krueger Flap Instl - Inbd Wing L.E.

251A1001, Rigging Instructions, Lateral & Speedbrake Control 251A2001, Rigging Instructions, Elevator Control System 251A3001, Rigging Instructions, Rudder Control System 251A4001, Rigging Instructions, Stabilizer Trim Control 256A3001, Rigging Instructions - Flap Actuation 256A2284, Flap.Slat Sensor Instl - Leading Edge, Wing

Certification Basis:

A. Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-91 with the exceptions listed below:

| SECTION NO. | TITLE | AT AMDT. 25 |
|-------------------|---|-------------|
| 25.445 | [Auxiliary Aerodynamic Surfaces] | 0 |
| 25.562 | Emergency Landing Dynamic Conditions | 64* |
| 25.607 | Fasteners | 0,91** |
| 25.631 | Bird Strike Damage | 0,91** |
| 25.699 | Lift and Drag Device Indicator | 0,91** |
| 25.783(f) | Doors | 15,91** |
| 25.807(c)(3) | Emergency Exits | 15 |
| 25.807(d)(1) | Emergency Exits | 77 |
| 25.831(a) & (g) | Ventilation | 41 |
| 25.832 | Cabin Ozone Concentration | 0*** |
| 25.841(a) | Pressurized Cabins | 38 |
| 25.853(d)(3) | Compartment Interiors | 72 |
| 25.904 | Automatic Takeoff Thrust Control System (Not complied with -new | at 25-82) |
| 25.1141 | Power Plant Controls: General | 11**** |
| 25.1309 | Equipment, Systems and Installations | 0,91** |
| 25.1419(c) | Ice Protection | 23,91** |
| 25.1447(c)(3)(ii) | Equipment Standards for Oxygen | 41 |
| | Dispensing Units | |

^{*} Flight attendant seats are qualified to Technical Standard Order C127. Passenger and crew seats in the flight deck comply with § 25.562(a),(b),((c)(1),(2),(3),(4),(7), and (8)). In addition flight deck observer seats comply with § 25.562((c)(5)).

Amendment level "0" is the original published version of Part 25 (February 1, 1965).

In addition, Boeing has volunteered to comply with the following amendment levels later than amendment 25-91.

| 92 | Performance; General |
|----|----------------------------------|
| 82 | Takeoff |
| 94 | Takeoff Speeds |
| 92 | Accelerate Stop Distance |
| 94 | Take Off Path |
| 92 | Takeoff Distance and Takeoff Run |
| | 82 94 92 94 |

^{**} Applicable to new and significantly modified structure and systems and portions of the airplane affected by these changes. Where two amendment levels are shown for the same paragraph, the number without the asterisk (*) applies to structures, systems and portions of the airplane which are not new or significantly modified. The structure, systems, and components which comply with the later amendment will be identified in Boeing document D010A001, approved by the FAA and JAA, and referenced on the TCDS.

^{***} Boeing provides FAA approved data (Document number D6-49779) to 737 operators to enable the operators to show ozone compliance per §121.578 for their specific route structures.

^{****} Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only. All other power plant controls were shown to comply with §25.1141 at amendment 25-91.

VIII. Model 737-700C (Cont'd)

| 25.115 | 92 | Takeoff Flight Path |
|---------------------|----|--|
| 25.119 | 94 | Landing Climb: All Engines Operating |
| 25.233 | 94 | Ground Directional Stability and Control |
| 25.349 | 94 | Rolling Conditions |
| 25.481 | 94 | Tail-Down Landing Conditions |
| 25.571(e)(1) | 96 | Damage-Tolerance & Fatigue Evaluation of Structure |
| 25.735 | 92 | Brakes |
| 25.807 (except (d)) | 94 | Emergency Exits |
| 25.855 | 93 | Cargo or Baggage Compartments |
| 25.857 | 93 | Cargo Compartment Classification |
| 25.858 | 93 | Cargo or Baggage Compartment Smoke or Fire Detection |
| 25.1533 | 92 | Additional Operating Limitations |

Special Conditions:

- Limit Engine Torque Loads for Sudden Engine Stoppage.
- High Intensity Radiated Fields (HIRF) Protection.

Equivalent Safety Findings:

| Equivalent Safety I manigs. | |
|-----------------------------|--|
| § 25.21(b) | Proof of Compliance |
| § 25.103 | Stalling Speed |
| § 25.107 | Takeoff Speeds |
| § 25.111(a) | Takeoff Path |
| § 25.119(b) | Landing - Climb: All engines operating |
| § 25.121 | Climb - One engine operative |
| § 25.125(a)(2) | Landing |
| § 25.143(g) | General - Controllability and Maneuverability |
| § 25.145 | Longitudinal Control) |
| § 25.147 | Directional and Lateral Control |
| § 25.149 | Minimum Control Speed) |
| § 25.161 | Trim |
| § 25.175 | Demonstration of Static Longitudinal Stability |
| § 25.177 | Static Directional and Lateral Stability |
| § 25.181 | Dynamic Stability |
| § 25.201 | Stall Demonstration |
| § 25.207 | Stall Warning |
| § 25.231 | Longitudinal Stability and Control |
| § 25.233 | Directional Stability and Control |
| § 25.237 | Wind Velocities |
| § 25.395(a) | Control Systems |
| § 25.735 | Brakes |
| § 25.773 | Pilot Compartment View |
| § 25.810 (a)(1)(ii) | Escape Slides |
| § 25.813(c)(1)(i) | Emergency Exit Access (for Type III Automatic Overwing Exit) |
| § 25.813(c)(2)(i) | Emergency Exit Access (for Type III Automatic Overwing Exit) |
| § 25.841(b)(6) | High Altitude Landing Operations |
| § 25.933(a)(1)(ii) | Reversing Systems |
| § 25.979(b)(1) | Pressure Fueling System |
| § 25.1001 | Fuel Jettison System |
| § 25.1323 | Airspeed Indication Systems |
| § 25.1325 | Static Pressure Systems |
| § 25.1389(b)(3) | Wing Tip Position Lights |
| § 25.1587 | Performance Information |
| | |

Exemptions:

- § 25.1435(b)(1) Hydraulic Systems (Originally granted May 17, 1995, Exemption No. 6086, applicable to 737-700), extended to include the main deck cargo door hydraulic system. (Exemption 6889, granted April 15, 1999)
- § 25.562(b)(2) Emergency Landing Dynamic Conditions related to Flight Deck Testing (Originally granted August 20, 1999, Exemption No. 6425A).
- § 25.901(c) Partial Exemption No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Originally granted February 4, 2003, Exemption No. 7968). See NOTE 4.
- § 25.305, 25.307(a), 25.601, 25.603(c), 25-613(a) and (b), and 25.1103(d) Partial Exemption Localized areas of temperature related damage. (Exemption No. 9571, December 11, 2007).

VIII. Model 737-700C (cont'd):

Partial Time-Limited Exemption from 14 CFR 25.853(a), appendix F, paragraph (a)(1)(i), Testing on Large Interior Panels, granted through November 28, 2010. (Exemption No. 9791, November 28, 2008)

In addition to the airworthiness standards, the type-certification basis for these derivative airplanes includes compliance with the emissions standards of part 34 as amended by any amendments effective at the time of certification and with the noise standards of part 36 as amended by Amendment 36-20 or any subsequent amendment effective at the time of certification.

B. Certification basis for 25.981 at amendment 25-102, and Special Conditions 25.308-SC, issued on December 25, 2005, for the flammability reduction system (FRS), is applied if fuel tank inerting is installed in new airplane production or as a modification. Airworthiness limitations for the FRS are contained in Section 9 of the applicable Maintenance Planning Document.

Certification Maintenance

Requirements (CMR's) The CMR's are listed in either the FAA approved Section 9 of Boeing Maintenance Planning Data

Document D626A001-CMR, revision June 2000 or later FAA approved revision, or the applicable engine Type Certification Data Sheet. The more restrictive requirement from these two documents

shall be in force.

Production

Basis: Production Certificate No. 700 has been issued and The Boeing Company is authorized to issue

airworthiness certificates under the delegation option authorization provisions of 14 CFR part 21

Required

Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification

Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design

Data.

Service

Information: The following Boeing "Structural Repair Manual" Documents are FAA-approved. Service Bulletins and

other service information, when FAA-approved, will carry a statement to that effect.

D634A201 for the 737-700C

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed.

NOTES FOR SECTION VIII:

NOTE 1. Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either

the FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001 is the basic FAA Approved Airplane Flight Manual for Model

737-700C airplane.

NOTE 2. Required structural inspections for compliance with FAR 25.571 and the retirement times for

Safe-life parts are listed in the FAA Approved Airworthiness Limitations and Certification Maintenance Requirements Section 9 of Boeing 737-600/700/800 Maintenance Planning Document D626A001-CMR,

Revision June 2000 or later FAA-approved revision.

NOTE 3. The type design reliability and performance of the Model 737-700C, airplane has been evaluated in

accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with

Boeing Document D044A007, "737-600/-700/-700C/-800 ETOPS CONFIGURATION, MAINTENANCE,

AND PROCEDURES". This finding does not constitute approval to conduct ETOPS operations.

NOTE 4. The FAA has determined that the occurrence of any uncontrollable high thrust failure condition "may

endanger the safe operation of an airplane" and hence is reportable under FAR 121.703, 125.409,

and 135.415.

NOTE 5: Mandatory replacement times, inspection intervals, related inspection procedures and all critical design

configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-600/700C/700IGW/800/900 Maintenance Planning Data Document D626A001-CMR, Revision December 2005 or later FAA-approved revision. All Model 737-700C series airplanes, production line number 1679 and on, must comply with Revision March 2006, or a later FAA-approved revision. The FAA is planning to issue an airworthiness directive mandating compliance with Revision March 2006, or a later FAA-approved revision, applicable to all Model 737-600, -700C, -800, and -900 series airplanes with

production numbers lower than 1679.

VIII. Model 737-700C (cont'd):

NOTE 6:

The Model 737-600/700/800 have been approved to operate in "Reduced Vertical Separation Minimum" (RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to Advisory Circular (AC) 91-RVSM, titled "Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical Separation Minimum is Applied."

IX. Model 737-900 (Approved April 17, 2001) Transport Aircraft.

Engines: Two CFM 56-7B or -7B/3 Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual

for engine limitations.

Fuel: Fuels meeting the following specifications and mixtures thereof are approved for use:

* Jet A, Jet A-1 as specified in ASTM-D1655

* JP-5 as specified in MIL-T-5624

* JP-8 as specified in MIL-T-83133

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels produced or certified to other specifications <u>and having properties meeting the requirements of the above specifications</u> are acceptable for use. Consult Flight Manual for additive use.

Oil Consumption: For compliance with FAR 25.1011(b), the approved maximum oil consumption rate for the CFM56-7B

engines installed on this model airplane has been established as 0.340 gallons per hour. Operation of the Model 737-900 airplane with engine oil consumption rates higher than this limit is not permitted.

Engine Ratings: Model 737-900 Takeoff static thrust Maximum continuous static standard day, sea level thrust, standard day, sea level conditions lb. conditions (5 min) lb. CFM56-7B24 22,800 24,200 22,800 CFM56-7B24/3 24,200 CFM56-7B24/3B1** 24,200 22,800 CFM56-7B26 26,300 25,900 25,900 CFM56-7B26/3 26,300 25,900 CFM56-7B26/3F 26,300

25,900 CFM56-7B26/B1 26,300 25,900 CFM56-7B27 27,300 CFM56-7B27/3 27,300 25,900 CFM56-7B27/3F 27,300 25,900 25,900 CFM56-7B27/B1 27,300 25,900 CFM56-7B27/3B1 27,300 CFM56-7B273/B1F 25,900 27,300 CFM56-7B27/B3 25,900 27,300 CFM56-7B27/3B3 27,300 25,900

For engine operating limits see Engine Type Certificate Data Sheet No. E00055EN or E00056EN or the FAA Approved Airplane Flight Manual.

Thrust Settings: The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or

AFM Appendices must be used for control of engine thrust.

Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)

For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

C. G. Range: See the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

Maximum Weights: 737-900

Please see Note 4 at the end of Section VII for limitations which may be applicable

to the 737-900 airplanes

^{**} Special Rating

IX. Model 737-900 (cont'd)

Maximum Taxi Weight (MTW) 174,700 lbs. Maximum Takeoff Weight (MTOW) 174,200 lbs. Maximum Landing Weight (MLW) 147,300 lbs. Maximum Zero Fuel Weight (MZFW) 140,300 lbs.

Model 737-900 **Eligible Serial Numbers:**

737-9B5 29987-30002

737-9GP 35713

737-9K2 29599-29602, 32944 737-95R 30412, 33740

737-97L 33644-33646, 33648, 33649

737-924 30118-30129

737-990 30013-30019, 30021, 30856, 30857, 33679, 33680

Minimum Crew

for All Flights: 2 (Pilot and Copilot)

Maximum

Passengers: Passenger only mode 189

Maximum Baggage

Cargo: See appropriate Weight and Balance Manual, Boeing Document No. D043A590

Fuel & Oil

Capacities: See appropriate Weight and Balance Manual, Boeing Document No. D043A590

Minimum Required

Fuel: See appropriate FAA Approved Airplane Flight Manual listed in Note 2.

Maximum Operating

41,000 ft. Altitude:

Datum: See appropriate Weight & Balance Manual, Boeing Document No. D043A590

MAC: 155.81 in

Other Operating

Limitations: See FAA Approved Airplane Flight Manual Appendices

Control Surface

Movements: To insure proper operation of the airplane, the movements of the various control surfaces must be

carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be

rigged according to the following FAA Approved data:

Boeing Drawing Numbers:

114A1001, Krueger Flap Instl - Inbd Wing L.E.

251A1001, Rigging Instructions, Lateral & Speedbrake Control 251A2001, Rigging Instructions, Elevator Control System 251A3001, Rigging Instructions, Rudder Control System 251A4001, Rigging Instructions, Stabilizer Trim Control 256A3001, Rigging Instructions - Flap Actuation 256A2284, Flap Slat Sensor Instl - Leading Edge, Wing

Certification Basis:

A. Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-91 with the exceptions listed below:

| SECTION NO. | TITLE | AT AMDT. 25 |
|-------------|--------------------------------------|-------------|
| 25.365 | Pressurized Compartment Loads | 0 |
| 25.562 | Emergency Landing Dynamic Conditions | 64* |
| 25.607 | Fasteners | 0,91** |
| 25.631 | Bird Strike Damage | 0,91** |
| 25.699 | Lift and Drag Device Indicator | 0,91** |

| 1X. Model 737-9 | <u>00 (cont'd)</u> |
|-----------------|--------------------|
| 25.783(f) | Doors |

| 25.783(f) | Doors | 15,91** |
|-------------------|---|-------------------|
| 25.807(c)(3) | Emergency Exits | 15 |
| 25.813 | Emergency Exit Access | 45,91** |
| 25.831(a) & (g) | Ventilation | 41 |
| 25.832 | Cabin Ozone Concentration | 0*** |
| 25.841(a) | Pressurized Cabins | 38 |
| 25.853(d)(3) | Compartment Interiors | 72 |
| 25.904 | [Automatic Takeoff Thrust Control System] | Not complied with |
| | | (New at 25-82) |
| 25.1141 | Power Plant Controls: General | 11**** |
| 25.1309 | Equipment, Systems and Installations | 0,91** |
| 25.1419(c) | Ice Protection | 23,91** |
| 25.1447(c)(3)(ii) | Equipment Standards for Oxygen | 41 |
| | Dispensing Units | |

- * Flight attendant seats are qualified to:
- 1. Technical Standard Order (TSO) C127, dated March 30, 1992, or
- TSO C127a, and

Head Injury Criteria data collected and reported by the TSO applicant is less than 1000 and,

Femur Injury Criteria data collected and reported by the TSO applicant is less than 2250 pounds, and,

Permanent deformation data collected and reported by the TSO applicant are in compliance with the requirements of FAA Advisory Circular (AC) 25.562-1A.

Passenger and crew seats in the flight deck comply with § 25.562(a),(b), ((c)(1),(2),(3),(4),(7), and (8)). In addition flight deck observer seats will comply with § 25.562((c)(5)).

- ** Applicable to new and significantly modified structure and systems and portions of the airplane affected by these changes. Where two amendment levels are shown for the same paragraph, the number without the asterisk (*) applies to structures, systems and portions of the airplane which are not new or significantly modified. The structure, systems, and components which comply with the later amendment are identified in Boeing document D010A001, approved by the FAA and JAA, and referenced on the TCDS..
- *** Boeing provides FAA approved data (Document number D6-49779) to 737 operators to enable the operators to show ozone compliance per §121.578 for their specific route structures.
- **** Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only. All other power plant controls were shown to comply with § 25.1141 at amendment 25-91.

Amendment level "0" is the original published version of Part 25 (February 1, 1965).

In addition, Boeing has volunteered to comply with the following amendment levels later than amendment 25-91.

| 25.101 | 92 | Performance; General |
|--------------|----|---|
| 25.105 | 92 | Takeoff |
| 25.107 | 94 | Takeoff Speeds |
| 25.109 | 92 | Accelerate Stop Distance |
| 25.113 | 92 | Takeoff Distance and Takeoff Run |
| 25.115 | 92 | Takeoff Flight Path |
| 25.571(e)(1) | 96 | Damage Tolerance and Fatigue Evaluation of Structure |
| 25.735 | 92 | Brakes |
| 25.855 | 93 | Cargo or Baggage Compartments |
| 25.857 | 93 | Cargo Compartment Classification |
| 25.858 | 93 | Cargo or Baggage Compartment Smoke or Fire Detection System |
| 25.1533 | 92 | Additional Operating Limitations |

Special Conditions:

- Limit Engine Torque Loads for Sudden Engine Stoppage.
- High Intensity Radiated Fields (HIRF) Protection.

IX. Model 737-900 (cont'd)

| Equivalent Safety Findings: | | |
|-----------------------------|--|--|
| § 1.2 | Abbreviations and Symbols | |
| § 25.21 | Proof of Compliance | |
| § 25.103 | Stalling Speed | |
| § 25.107 | Takeoff Speeds | |
| § 25.111 | Takeoff Path | |
| § 25.119 | Landing - Climb: All engines operating | |
| § 25.121 | Climb - One engine operative | |
| § 25.125 | Landing | |
| § 25.143 | General - Controllability and Maneuverability | |
| § 25.145 | Longitudinal Control | |
| § 25.147 | Directional and Lateral Control | |
| § 25.149 | Minimum Control Speed | |
| § 25.161 | Trim | |
| § 25.175 | Demonstration of Static Longitudinal Stability | |
| § 25.177 | Static Directional and Lateral Stability | |
| § 25.181 | Dynamic Stability | |
| § 25.201 | Stall Demonstration | |
| § 25.207 | Stall Warning | |
| § 25.231 | Longitudinal Stability and Control | |
| § 25.233 | Directional Stability and Control | |
| § 25.237 | Wind Velocities | |
| § 25.395(a) | Control Systems | |
| § 25.613 | Material Strength Properties and Design Values. | |
| § 25.735 | Brakes | |
| § 25.773 | Pilot Compartment View | |
| § 25.791 | Passenger Information Signs and Placards | |
| § 25.810 (a)(1)(ii) | Escape Slides | |
| § 25.811(f) | Emergency Exit Markings | |
| § 25.813(c)(1)(i) | Emergency Exit Access (for Type III Automatic Overwing Exit) | |
| § 25.813(c)(2)(i) | Emergency Exit Access (for Type III Automatic Overwing Exit) | |
| § 25.841(b)(6) | High Altitude Landing Operations | |
| § 25.853(f) | Compartment Interiors | |
| § 25.933(a) | Reversing Systems | |
| § 25.979(b)(1) | Pressure Fueling System | |
| § 25.1001 | Fuel Jettison System | |
| § 25.1323 | Airspeed Indication Systems | |
| § 25.1325 | Static Pressure Systems | |
| § 25.1389(b)(3) | Position Light Minimum Intensities | |
| § 25.1393 | Position Light Minimum Intensities | |
| § 25.1395 | Position Light Minimum Intensities | |
| § 25.1395 | Safe Flight in Icing Conditions | |
| § 25.1587 | Performance Information | |

Exemptions:

- § 25.1435(b)(1) Hydraulic Pressure Test (Originally granted August 20, 1999, Exemption No. 6953).
- § 25.562(b)(2) Emergency Landing Dynamic Conditions related to Flight Deck Testing (Originally granted August 20,1999, Exemption No. 6425A).
- § 25.901(c) Partial Exemption No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Originally granted February 4, 2003, Exemption No. 7968) See NOTE 5.
- § 25.305, 25.307(a), 25.601, 25.603(c), 25-613(a) and (b), and 25.1103(d) Partial Exemption Localized areas of temperature related damage. (Exemption No. 9571, December 11, 2007).
- Partial Time-Limited Exemption from 14 CFR 25.853(a), appendix F, paragraph (a)(1)(i), Testing on Large Interior Panels, granted through November 28, 2010. (Exemption No. 9791, November 28, 2008)

FAR Part 34:

Part 34 of the FAR as amended at the time of certification.

FAR Part 36

Part 36 of the FAR as amended at the time of certification.

IX. Model 737-900 (cont'd)

B. Certification basis for 25.981at amendment 25-102, and Special Conditions 25.308-SC, issued on December 25, 2005, for the flammability reduction system (FRS), is applied if fuel tank inerting is installed in new airplane production or as a modification. Airworthiness limitations for the FRS are contained in Section 9 of the applicable Maintenance Planning Document.

Certification Maintenance

Requirements (CMR's) The CMR's are listed in either the FAA approved Section 9 of Boeing Maintenance Planning Data

Document D626A001-CMR, revision March 2001 or later FAA approved revision, or the applicable engine Type Certification Data Sheet. The more restrictive requirement from these two

documents shall be in force.

Production

Basis: Production Certificate No. 700 has been issued and The Boeing Company is authorized to issue

airworthiness certificates under the delegation option authorization provisions of 14 CFR part 21

Required

Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification

Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design

data.

Service

Information: The following Boeing "Structural Repair Manual" Documents are FAA-approved. Service Bulletins and

other service information, when FAA-approved, will carry a statement to that effect. D634A211 for the

737-900.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed.

NOTES FOR SECTION IX:

NOTE 1. A current weight and balance report including list of equipment included in the certificated empty weight,

and loading instructions when necessary must be provided for each aircraft at the time of original

certification.

NOTE 2. Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either the

FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001 is the basic FAA Approved Airplane Flight Manual for Model

737-900 airplane.

NOTE 3. Required structural inspections for compliance with FAR 25.571 and the retirement times for Safe-life parts

are listed in the FAA Approved Airworthiness Limitations and Certification Maintenance Requirements Section 9 of Boeing 737-600/700/800/900 Maintenance Planning Document D626A001-CMR, Revision

March 2001 or later FAA-approved revision.

NOTE 4. The type design reliability and performance of the Model 737-900, airplane has been evaluated in accordance

with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D044A007, "737-600/-700/-700C/-800/-900 ETOPS CONFIGURATION, MAINTENANCE, AND PROCEDURES". This

finding does not constitute approval to conduct ETOPS operations.

NOTE 5. The FAA has determined that the occurrence of any uncontrollable high thrust failure condition "may

endanger the safe operation of an airplane" and hence is reportable under FAR 121.703, 125.409, and

135.415.

NOTE 6: Mandatory replacement times, inspection intervals, related inspection procedures and all critical design

configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 and Special Conditions 25-308-SC are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-600/700/700C/700IGW/800/900 Maintenance Planning Data Document D626A001-CMR, Revision November 2005 or later FAA-approved revision. All Model 737-900 series airplanes,

production line number 1679 and on, must comply with Revision March 2006, or a later FAA-approved revision. The FAA is planning to issue an airworthiness directive mandating

compliance with Revision March 2006, or a later FAA-approved revision, applicable to all Model 737-600, -700, -700C, -800, and -900 series airplanes with production numbers lower than 1679.

IX. Model 737-900 (cont'd)

NOTE 7:

The Model 737-900 has been approved to operate in "Reduced Vertical Separation Minimum" (RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to Advisory Circular (AC) 91-RVSM, titled "Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical Separation Minimum is Applied."

X. Model 737-900ER (Approved April 20, 2007) Transport Aircraft.

Engines: Two CFM 56-7B or -7B/3 Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual

for engine limitations. (See Note 2)

Fuel: Fuels meeting the following specifications and mixtures thereof are approved for use:

* Jet A, Jet A-1 as specified in ASTM-D1655

- * JP-5 as specified in MIL-T-5624
- * JP-8 as specified in MIL-T-83133

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels produced or certified to other specifications <u>and having properties meeting the requirements of the above specifications</u> are acceptable for use. Consult Flight Manual for additive use.

Oil Consumption:

For compliance with FAR 25.1011(b), the approved maximum oil consumption rate for the CFM56-7B engines installed on this model airplane has been established as 0.340 gallons per hour. Operation of the Model 737-900ER airplane with engine oil consumption rates higher than this limit is not permitted.

| Engine Ratings: | Model 737-900ER | Takeoff static thrust standard day, sea level conditions (5 min) lb. | Maximum continuous static thrust, standard day, sea level conditions lb. |
|-----------------|------------------|--|--|
| | CFM56-7B24 | 24,200 | 22,800 |
| | CFM56-7B24/3 | 24,200 | 22,800 |
| | CFM56-7B24/3B1** | 24,200 | 22,800 |
| | CFM56-7B26 | 26,300 | 25,900 |
| | CFM56-7B26/B1 | 26,300 | 25,900 |
| | CFM56-7B26/3 | 26,300 | 25,900 |
| | CFM56-7B26/3F | 26,300 | 25,900 |
| | CFM56-7B27 | 27,300 | 25,900 |
| | CFM56-7B27/3 | 27,300 | 25,900 |
| | CFM56-7B27/3F | 27,300 | 25,900 |
| | CFM56-7B27/B1 | 27,300 | 25,900 |
| | CFM56-7B27/3B1 | 27,300 | 25,900 |
| | CFM56-7B27/3B1F | 27,300 | 25,900 |
| | CFM56-7B27/B3 | 27,300 | 25,900 |
| | CFM56-7B27/3B3 | 27,300 | 25,900 |

^{**} Special Rating

For engine operating limits see Engine Type Certificate Data Sheet No. E00055EN or E00056EN or the FAA Approved Airplane Flight Manual. (See Note 2). Additional limitations may apply to 737-900ER model airplanes (see Note 8)

Thrust Settings:

The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

Airspeed Limits:

VMO/MMO - 340/0.82 (KCAS)

For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

C. G. Range: See the appropriate FAA Approved Airplane Flight Manual (See Note 2)

Maximum Weights: 737-900ER

| Maximum Taxi Weight (MTW) | 188,200 lbs. |
|---------------------------------|--------------|
| Maximum Takeoff Weight (MTOW) | 187,700 lbs. |
| Maximum Landing Weight (MLW) | 157,300 lbs. |
| Maximum Zero Fuel Weight (MZFW) | 149,300 lbs. |
| | |

X. Model 737-900ER (cont'd)

Model 737-900ER Eligible Serial Numbers:

737-924ER 30130, 31620, 31622, 31633, 31664-31666, 32826, 32827, 32829, 32833, 32835, 33456, 33457, 33460,

33527, 33529, 33531-35535, 35719, 35727, 37093-37095, 37097, 37098

737-96NER 35223, 35225, 35227, 36539

737-94XER 36086, 36087

737-9GJER 34952, 34953, 34956, 34957, 34961 737-9GPER 35679, 35680, 35710-35723, 35724-35728

737-9HWER 37546 737-9JAER 37560

Minimum Crew

for All Flights: 2 (Pilot and Copilot)

Maximum

Passengers: Three exit configurations based on the activation and classification of the Mid-Cabin Emergency Door

(MED)

Two door arrangement with MED de-activated has 189 maximum passenger capacity

Three door arrangement with MED activated and rated as a Type II exit – 215 maximum passenger

capacity

Three door arrangement with MED activated and rated as a Type I exit – 220 maximum passenger

capacity

Maximum Baggage

Cargo: See Note 1 and appropriate Weight and Balance Manual, Boeing Document No. D043A590.

Fuel & Oil

Capacities: See Note 1 and appropriate Weight and Balance Manual, Boeing Document No. D043A590.

Minimum Required

Fuel: See appropriate FAA Approved Airplane Flight Manual listed in Note 2.

Maximum Operating

Altitude: 41,000 ft.

Datum: See appropriate Weight & Balance Manual, Boeing Document No. D043A590

MAC: 155.81 in

Other Operating

Limitations: See Note 4 - Extended Range Two-Engine Operations (ETOPS)

Control Surface

Movements: To insure proper operation of the airplane, the movements of the various control surfaces must be

carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be

rigged according to the following FAA Approved data:

Boeing Drawing Numbers:

114A1001, Krueger Flap Instl - Inbd Wing L.E.

251A1001, Rigging Instructions, Lateral & Speedbrake Control 251A2001, Rigging Instructions, Elevator Control System 251A3001, Rigging Instructions, Rudder Control System 251A4001, Rigging Instructions, Stabilizer Trim Control 256A3001, Rigging Instructions - Flap Actuation

256A2284, Flap Slat Sensor Instl - Leading Edge, Wing

Certification Basis:

A. Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-108 with the exceptions listed below:

| SECTION NO. | TITLE | | AT AMDT. 25- |
|-------------------|--------------|--------------------------------------|-----------------|
| 25.365 | | Pressurized Compartment Loads | 0***** |
| 25.562 | | Emergency Landing Dynamic Conditions | 64* |
| 25.571 except (e) | | Damage Tolerance | 86 (See Note 3) |

25.607 Fasteners 0**

| X. Model 737-900ER (cont'd) | | | | |
|-----------------------------|--|---------|--|--|
| 25.631 | Bird Strike Damage | 0** | | |
| 25.699 | Lift and Drag Device Indicator | 0** | | |
| 25.783 | Doors-Exception applies to all except Forward Access | 15 | | |
| | & Airstair, EE Access, automatic overwing exit | | | |
| | (AOE) and MED | | | |
| 25.783(f) | Doors-Exception applies to (Forward access, | 88**** | | |
| | Forward Airstair, EE Access and AOE) | | | |
| 25.807 except (c)(3) | Emergency Exits (with MED de-activated) | 72***** | | |
| 25.807(c)(3) | Emergency Exits (with MED de-activated) | 15***** | | |
| 25.831(a)(g) | Ventilation | 41 | | |
| 25.832 | Cabin Ozone Concentration | 0*** | | |
| 25.841(a) | Pressurized Cabins | 38 | | |
| 25.903 | Engines | 94 | | |
| 25.981 | Fuel Tank Ignition Prevention | 11 | | |
| 25.1091 | Air Induction | 57 | | |
| 25.1141 | Power Plant Controls: General, Exception applies | 11**** | | |
| | to APU spar mounted fuel shut off valve only | | | |
| 25.1183 | Flammable Fluid-Carrying Components | 57 | | |
| 25.1185 | Flammable Fluids | 19 | | |
| | | | | |
| 25.1309 | Equipment, Systems and Installations | 0** | | |
| 25.1419(c) | Ice Protection | 23 | | |
| 25.1419 except (c) | Ice Protection | 72 | | |
| 25.1435 | Hydraulic Systems | 72 | | |
| 25.1447(c)(3)(ii) | Equipment Standards for Oxygen | 41 | | |
| | Dispensing Units | | | |
| | | | | |

* Flight attendant seats are qualified to:

M. J.1 727 000ED (---49.1)

- 1. Technical Standard Order (TSO) C127, dated March 30, 1992, or
- 2. TSO C127a, and
 - a) Head Injury Criteria data collected and reported by the TSO applicant is less than 1000 and,
 - b) Femur Injury Criteria data collected and reported by the TSO applicant is less than 2250 pounds, and,
 - Permanent deformation data collected and reported by the TSO applicant are in compliance with the requirements of FAA Advisory Circular (AC) 25.562-1A.
- 3. As an alternative, flight attendant partitions may be qualified to \$25.562(a), (b), (c). Passenger and crew seats in the flight deck comply with \$ 25.562(a), (b), ((c)(1),(2),(3),(4),(7), and (8)). In addition flight deck observer seats will comply with \$ 25.562((c)(5)).
- ** Exception applies only to structures, systems and portions of the airplane which are not new or significantly modified. The structure, systems, and components which comply with amendment 25-108 are identified in Boeing document D010A001 "New and Significantly Modified Systems, Equipment, and Structures on the Next Generation 737 Airplane Family."
- *** Boeing provides FAA approved data (Document number D6-49779) to 737 operators to enable the operators to show ozone compliance per §121.578 for their specific route structures.
- **** Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only.
- **** Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only. All other power plant controls were shown to comply with § 25.1141 at Amendment 25-108.
- ***** Amendment 25-108 is applicable to the new Mid Cabin Emergency Door (MED) only. The three cast doors (forward access, forward airstair, E/E access), and the Automatic Overwing Exit (AOE) door are unchanged areas and comply with Amendment 25-88, the 737-900 certification basis. The remaining unchanged doors comply with Amendment 25-15. The doors which comply, with the later amendments are identified in Boeing document D010A001.
- ***** Exceptions to 25.807(c)(3) at Amendment 25-15 and 25.807 at amendment 25-72 apply to the exit configuration with a de-activated Mid Cabin Emergency Exit Door only. The exit configurations with the activated Mid Cabin Emergency Door (Type I or Type II) comply with 25.807 at Amendment 25-108.

X. Model 737-900ER (cont'd)

****** The airplane is designed to withstand the effects of a sudden release of pressure venting aft through an 820 square inch opening in that bulkhead above the main deck floor and the total available bulkhead area below the main deck floor at any operating altitude.

The certification basis for the following regulations at amendment levels later than 25-108.

SECTION NO. TITLE AT AMDT. 25-

25.869(a)(4) Fire Protection Systems

25.1353(d) Electrical Equipment and Installations

Special Conditions:

- Limit Engine Torque Loads for Sudden Engine Stoppage.
- High Intensity Radiated Fields (HIRF) Protection.
- Interaction of Systems and Structures

Certification basis for 25.981 at amendment 25-102, and Special Conditions 25.308-SC, issued on December 25, 2005, for
the flammability reduction system (FRS), is applied if fuel tank inerting is installed in new airplane production or as a
modification. Airworthiness limitations for the FRS are contained in Section 9 of the applicable Maintenance Planning
Document.

Equivalent Level of Safety Findings:

§ 25.395(a) Control Systems

§ 25.613 Material Strength Properties and Design Values
 § 25.791 Passenger Information Signs and Placards

§ 25.810(a)(1)(ii) Escape Slides

§ 25.811(f) Emergency Exit Markings

§ 25.813(a) Type II Emergency Exit Access - 13" Aisle

§ 25.813(c)(1) Type III Emergency Exit Access § 25.813(c)(2)(i) Type III Emergency Exit Access

§ 25.831(a) Ventilation

§ 25.841(b)(6) High Altitude Landing Operations

§ 25.933(a)
§ 25.979(b)(1)
§ 25.1001
§ 25.1389(b)(3)
Reversing Systems
Pressure Fueling System
Fuel Jettison System
Wing Tip Position Lights

§ 25.1389(b)(1)(2), § 25.1391, § 25.1393 Position Light Minimum Intensities § 25.1395, § 25.1389(b)(3) Position Light Overlapping Intensities Ice Protection (In relation to winglet)

§ 25.1435(b)(1) Hydraulic Systems - Static Proof Pressure Test

 \S 25.1517 Rough Air Speed V_{RA}

Exemptions:

- § 25.562(b)(2) Emergency Landing Dynamic Conditions related to Flight Deck Testing (Originally granted August 20,1999, Exemption No. 6425A, March 10, 2009, Exemption No. 6425B).
- § 25.901(c) Partial Exemption No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Originally granted February 4, 2003, Exemption No. 7968) (See Note 5)
- § 25.305, 25.307(a), 25.601, 25.603(c), 25-613(a) and (b), and 25.1103(d) Partial Exemption Localized areas of temperature related damage. (Exemption No. 9571, December 11, 2007).
- Partial Time-Limited Exemption Exemption from 14 CFR 25.853(a), appendix F, paragraph (a)(1)(i), Testing on Large Interior Panels, granted through November 28, 2010. (Exemption No. 9791, November 28, 2008)

FAR Part 34:

Part 34-3

FAR Part 36:

Part 36-28

Certification Maintenance

Requirements (CMR's)

The CMR's are listed in either the FAA approved Section 9 of Boeing Maintenance Planning Data Document D626A001-CMR, revision R2 of March 2007 or later FAA approved revision, or the applicable engine Type Certification Data Sheet. The more restrictive requirement from these two documents shall be in force.

X. Model 737-900ER (cont'd)

Production

Basis: Production Certificate No. 700 has been issued and The Boeing Company is authorized to issue

airworthiness certificates under the delegation option authorization provisions of 14 CFR part 21

Required

Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification

Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design

data.

Service

Information: The following Boeing "Structural Repair Manual" Documents are FAA-approved. Service Bulletins and

other service information, when FAA-approved, will carry a statement to that effect. D634A213 for the

737-900ER.

C.G. Range: See the appropriate FAA Approved Airplane Flight Manual listed.

NOTES FOR SECTION X:

NOTE 1. A current weight and balance report including list of equipment included in the certificated empty weight,

and loading instructions when necessary must be provided for each aircraft at the time of original

certification.

NOTE 2. Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either the

FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001.9GP is the basic FAA Approved Airplane Flight Manual for

Model 737-900ER airplane.

NOTE 3. Required structural inspections for compliance with FAR 25.571 and the retirement times for Safe-life parts

are listed in the FAA Approved Airworthiness Limitations and Certification Maintenance Requirements Section 9 of Boeing 737-600/700/800/900 Maintenance Planning Document D626A001-CMR, Revision R2,

or later FAA-approved revision.

NOTE 4. The type design reliability and performance of the Model 737-900ER, airplane has been evaluated in

accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D044A007, "737-600/-700/-700C/-800/-900/ERETOPS CONFIGURATION, MAINTENANCE, AND

PROCEDURES." This finding does not constitute approval to conduct ETOPS operations.

NOTE 5. The FAA has determined that the occurrence of any uncontrollable high thrust failure condition "may

endanger the safe operation of an airplane" and hence is reportable under FAR 121.703, 125.409, and

135.415.

NOTE 6: Mandatory replacement times, inspection intervals, related inspection procedures and all critical design

configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-

600/700/800/900 Maintenance Planning Data Document D626A001-CMR, Revision R2, dated March, 2007,

or later FAA-approved revision.

NOTE 7: The Model 737-900ER has been approved to operate in "Reduced Vertical Separation Minimum"

(RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to Advisory Circular (AC) 91-RVSM, titled "Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical

Separation Minimum is Applied."

NOTE 8: The acceptable engine model on 737-900ER model aircraft is dependent on the type of in-service

use. See the Airplane Flight Manual for approved installation of either the CFM56-7B26, CFM56-

7B26/B1, or CFM56-7B27/B3